

CASE

NUMBER:

99-150

Northern Kentucky Water District

Construct, Finance; 278.023

Regular

IN THE MATTER OF THE APPLICATION AND MOTION OF NORTHERN KENTUCKY WATER SERVICE DISTRICT TO CONSTRUCT AN EXTENSION, SUB-DISTRICT C, TO SERVE APPROXIMATELY 400 NEW CUSTOMERS, AND TO INSTITUTE A SURCHARGE UNDER KRS 278.023 WITH NO CHANGE IN NORTHERN'S GENERAL WATER RATES; ESTIMATED FUNDING OF \$5,200,000 IN LARGE MEASURE BY USDA, PLUS COMMUNITY EFFORTS

SEQ NBR	Date	Remarks
1	04/13/99	Application.
2	04/15/99	Acknowledgement letter.
3	04/21/99	Deficiency letter, response due 5/6/99.
4	(M) 04/23/99	RESPONSE TO FILING DEF (DON GIBSON NORTHERN KY WATER)
5	(M) 04/26/99	AFFIDAVIT OF PUBLIC NOTICE (RONALD BARROW NORTHERN KY WD)
6	04/30/99	Deficiency cured letter.
7	(M) 05/03/99	AFFIDAVIT (RONALD BARROW NORTHERN KY WATER SERV)
8	05/17/99	Final Order approving construction, financing and rates.
9	(M) 09/01/99	REVISED TARIFF (RONALD BARROW NORTHERN KY WATER SERV)
10	(M) 04/28/00	COPY OF PROJECTS & FUNDS FOR PROJECTS (JOHN HUGHES NORTHERN KY WD)
11	(M) 04/28/00	LIST OF PROJECTS (JOHN HUGHES/NORTHERN KY WATER DIS.)
12	(M) 03/04/02	Don Gibson - Northern Kentucky Water District - CD-Rom filing of Sub District C as built plans.

Northern Kentucky
Water District

RECEIVED

MAR 04 2002

DIVISION OF UTILITY
ENGINEERING & SERVICES

James Rice
Public Service Commission
211 Sower Boulevard
Frankfort Kentucky
40602

RECEIVED

MAR 04 2002

PUBLIC SERVICE
COMMISSION

Date:2/26/02

Dear Mr. Rice,

As you may remember, you and I and Gerald Wuetcher, talked about electronically filing our Sub District C as built plans. They are now complete and we met with the Department of Rural Development last week to finalize the project. Enclosed are those discs that have our as-built plans on strip map format for the Sub District-C project (Cases 99-150 and 2000-329). If you have any questions or need assistance please do not hesitate to call. My direct number is (859) 426-2713.

Thanks again,



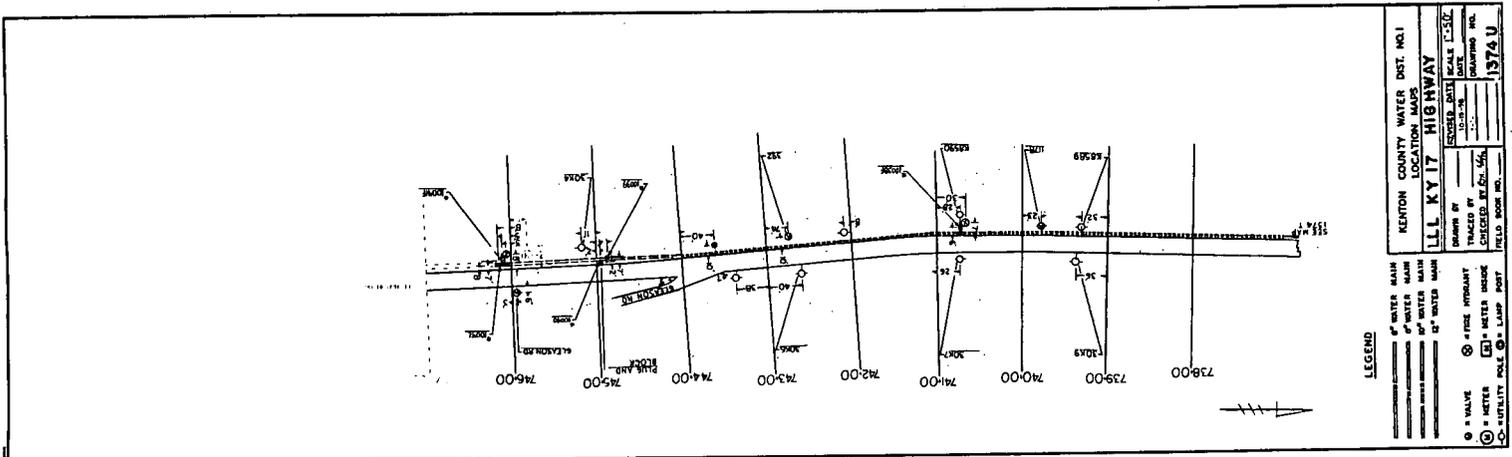
Don Gibson
Construction Manager
Northern Kentucky Water District

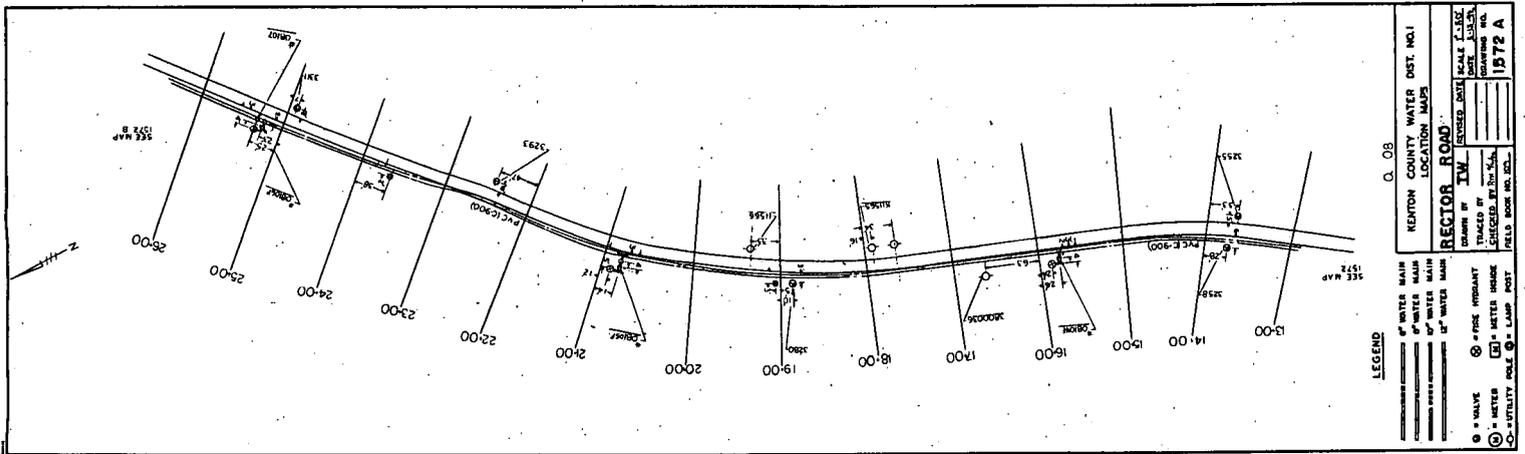
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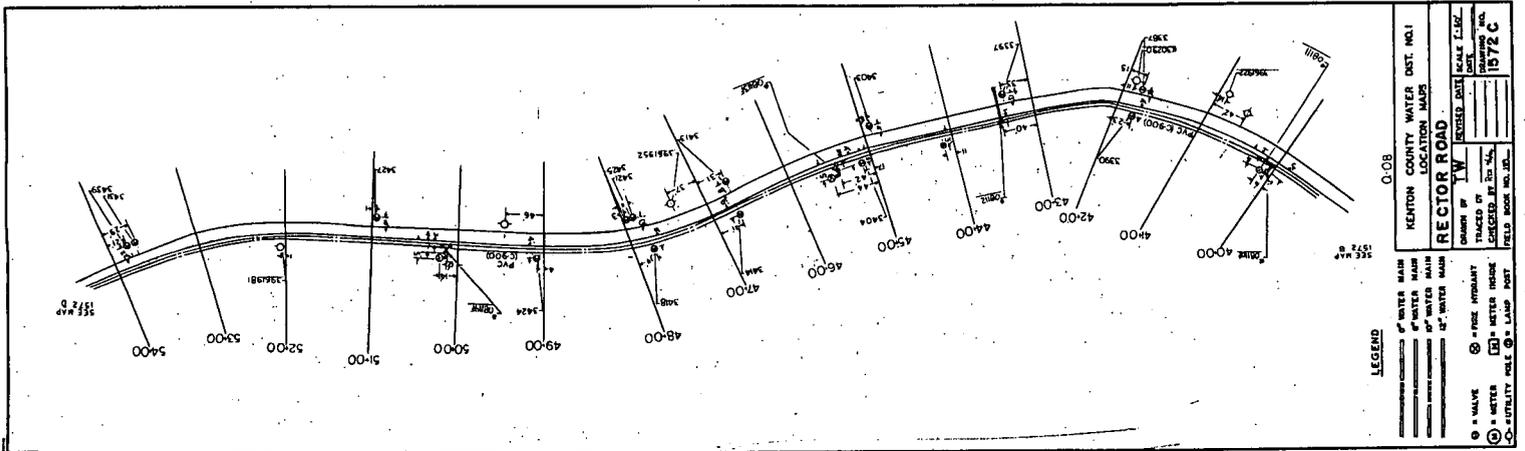
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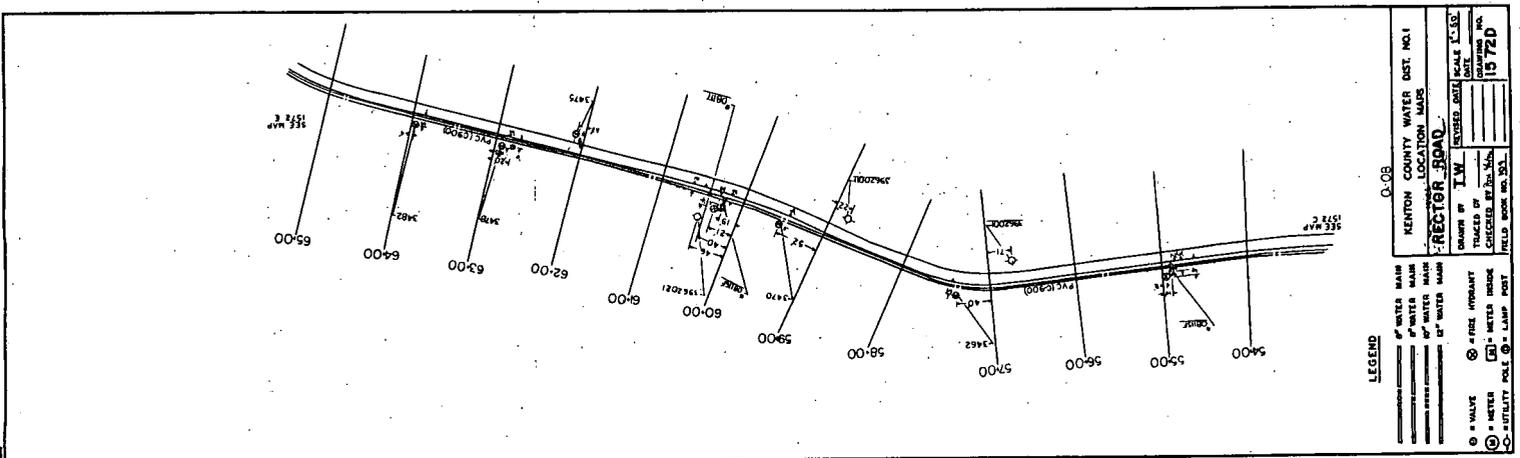
PUBLIC SERVICE
COMMISSION

Printed in house
3/7/2002









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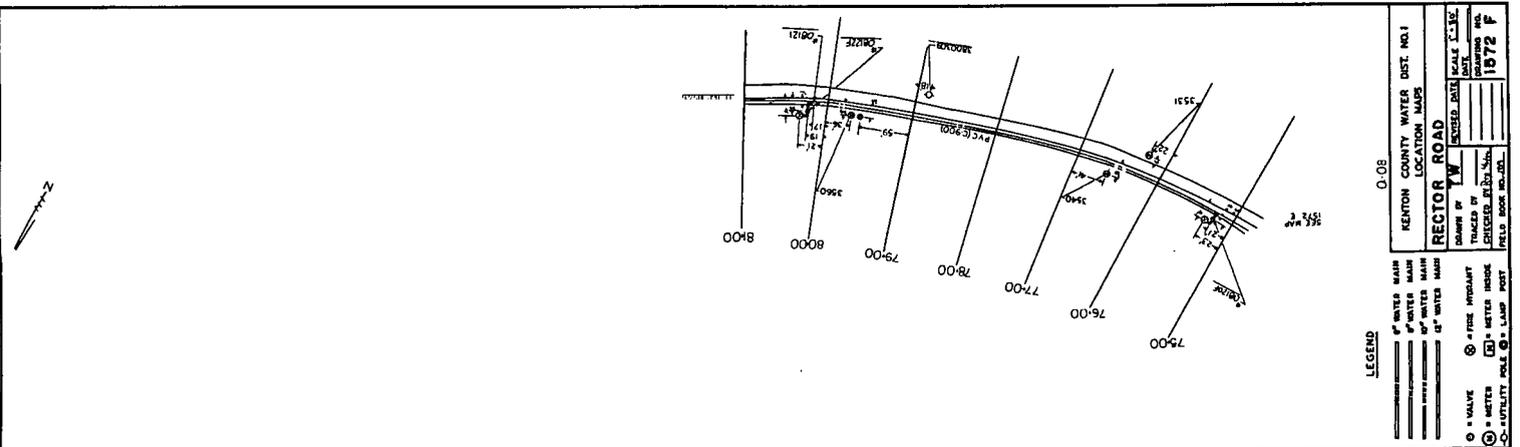
KENTON COUNTY WATER DIST. NO. 1
LOCATION MAP
REPTON ROAD

SCALE 1"=32'

DRAWN BY T.W.
CHECKED BY P.C. No. 15720
FIELD BOOK NO. 253

LEGEND

- WATER MAIN
- WATER MAIN
- WATER MAIN
- WATER MAIN
- ⊙ VALVE
- ⊙ FIRE HYDRANT
- ⊙ METER
- ⊙ UTILITY POLE
- ⊙ LAMP POST



LEGEND

- 12" WATER MAIN
- 6" WATER MAIN
- 4" WATER MAIN
- 2" WATER MAIN
- 1.5" WATER MAIN
- 1" WATER MAIN
- 0.75" WATER MAIN
- 0.5" WATER MAIN
- ⊙ VALVE
- ⊕ FIRE HYDRANT
- ⊙ METER
- ⊕ METER HOUSE
- ⊙ UTILITY HOLE
- ⊕ LAMP POST

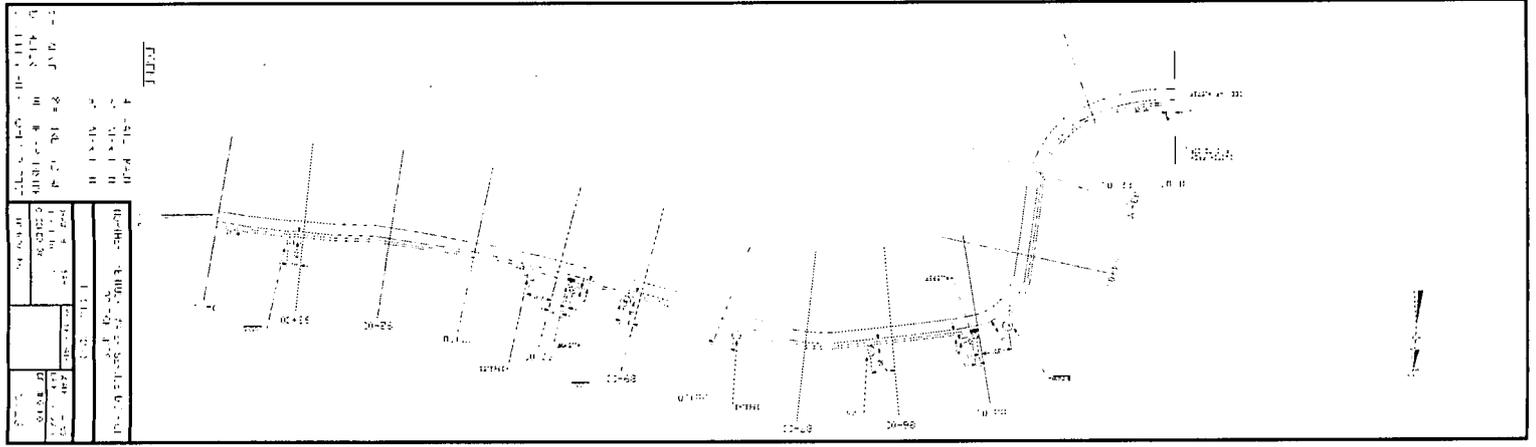
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NEWTON COUNTY WATER DIST. NO. 1
LOCATION MAPS

RECTOR ROAD

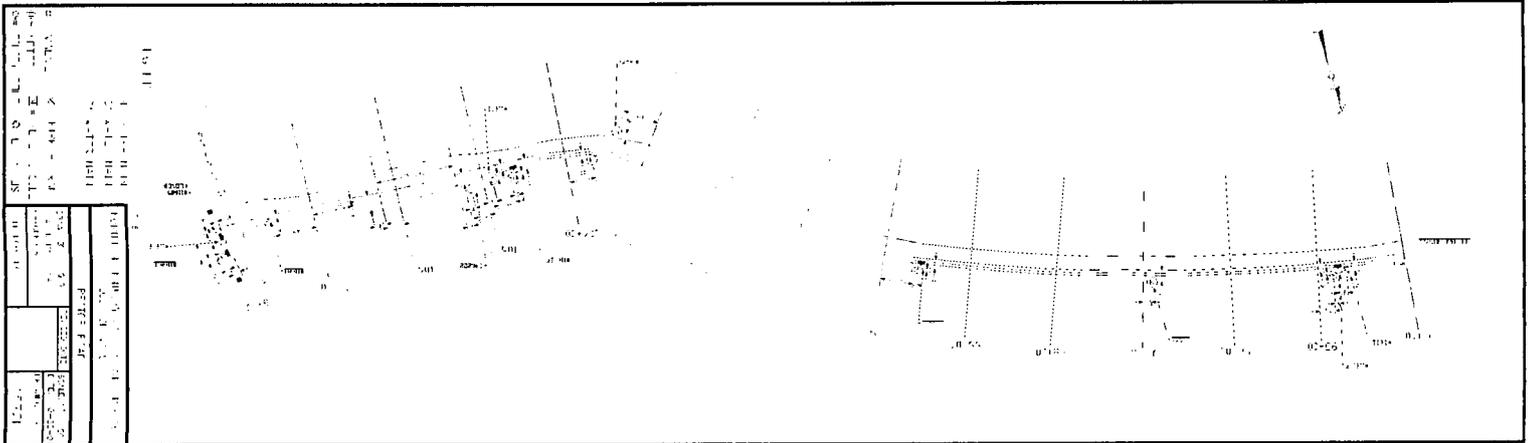
DRAWN BY T.W. GIESELER, INC.
CHECKED BY T.W. GIESELER, INC.

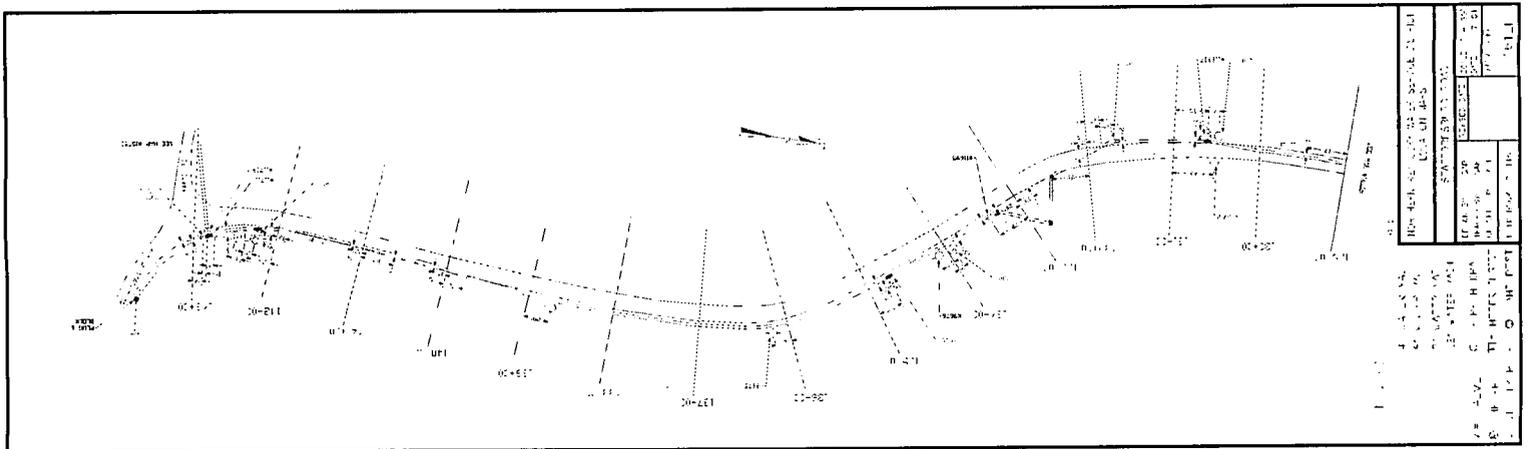
SCALE 1" = 10'
DATE 1872 F



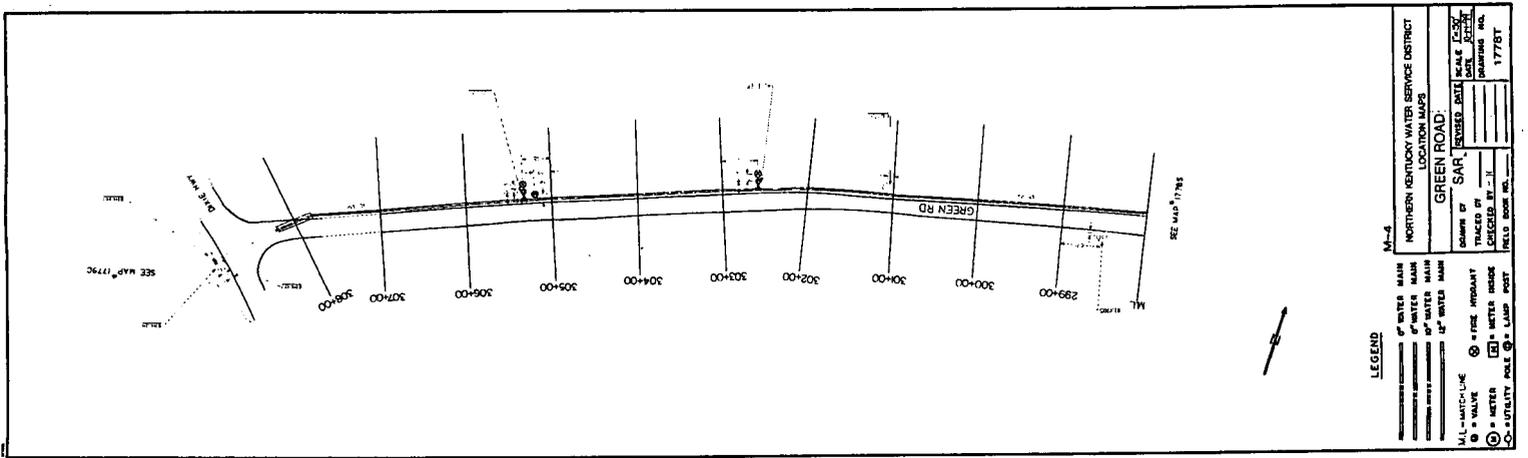
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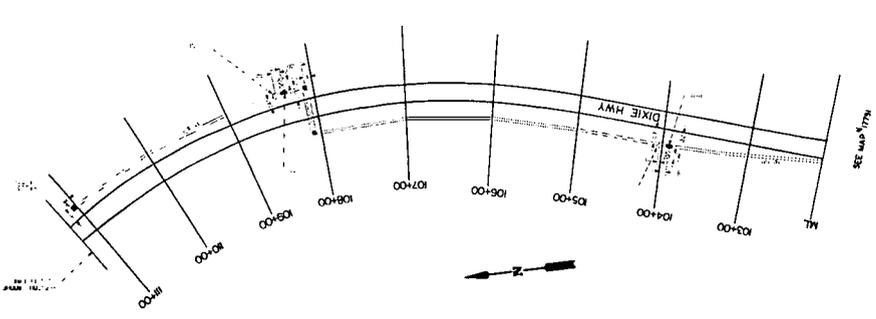
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LEGEND

—	EXISTING WATER MAIN
- - -	PROPOSED WATER MAIN
—	EXISTING WATER MAIN
- - -	PROPOSED WATER MAIN
M.L. - MATCH LINE	
⊙	WATER VALVE
⊕	WATER METER
⊗	WATER METER BOX
⊙	WATER METER BOX
⊗	WATER METER BOX

M-4
NORTHERN KENTUCKY WATER SERVICE DISTRICT
LOCATION MAPS
GREEN ROAD
OWNER OF MAP: GREEN ROAD
TRACED BY: CARL J. COOK
CHECKED BY: CARL J. COOK
DRAWING NO.: 1778T
DATE: 10/1/78

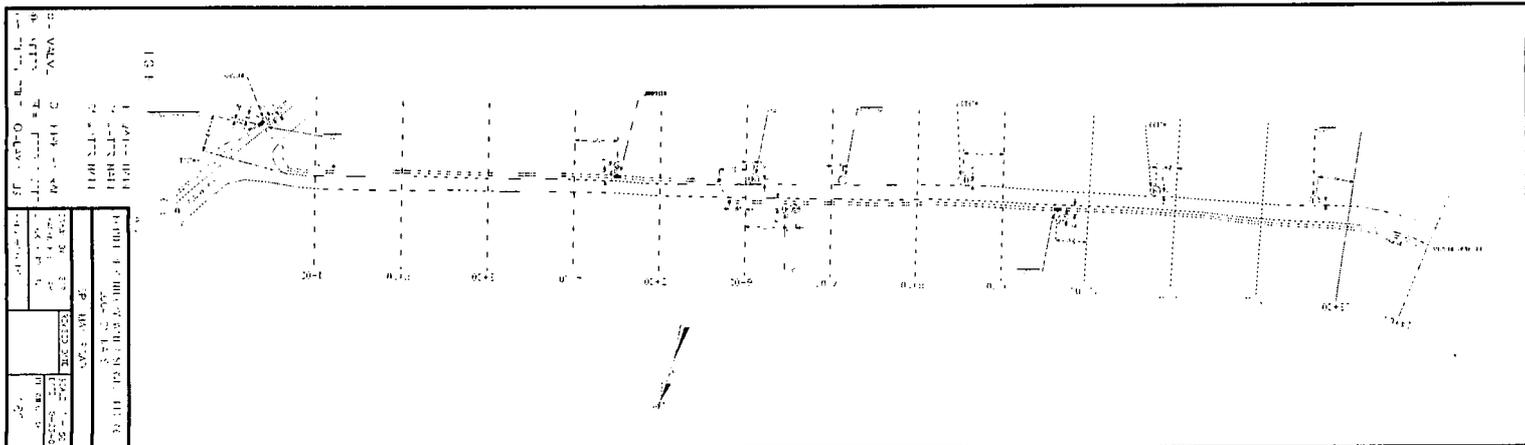


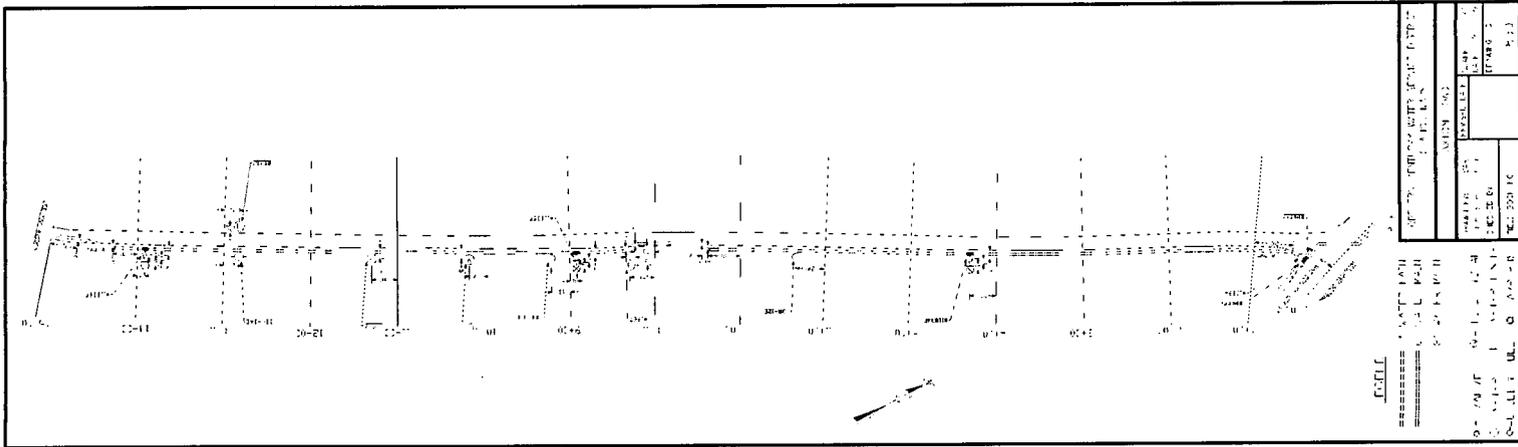
LEGEND

- WATER MAIN
- WATER MAIN
- WATER MAIN
- WATER MAIN
- MATCH LINE
- ⊙ = VALVE
- ⊙ = FIRE HYDRANT
- ⊙ = METER
- ⊙ = METER HOUSE
- ⊙ = UTILITY POLE @ = LAMP POST

M-5
 NORTHERN NORTON WATER SERVICE DISTRICT
 LOCATION MAPS
DIXIE HWY

DRAWN BY	SAE	DESIGNED BY	SAE
TRACED BY	SAE	CHECKED BY	SAE
SCALE	AS SHOWN	DATE	11/77
DRAWING NO.		FIELD BOOK NO.	1777N

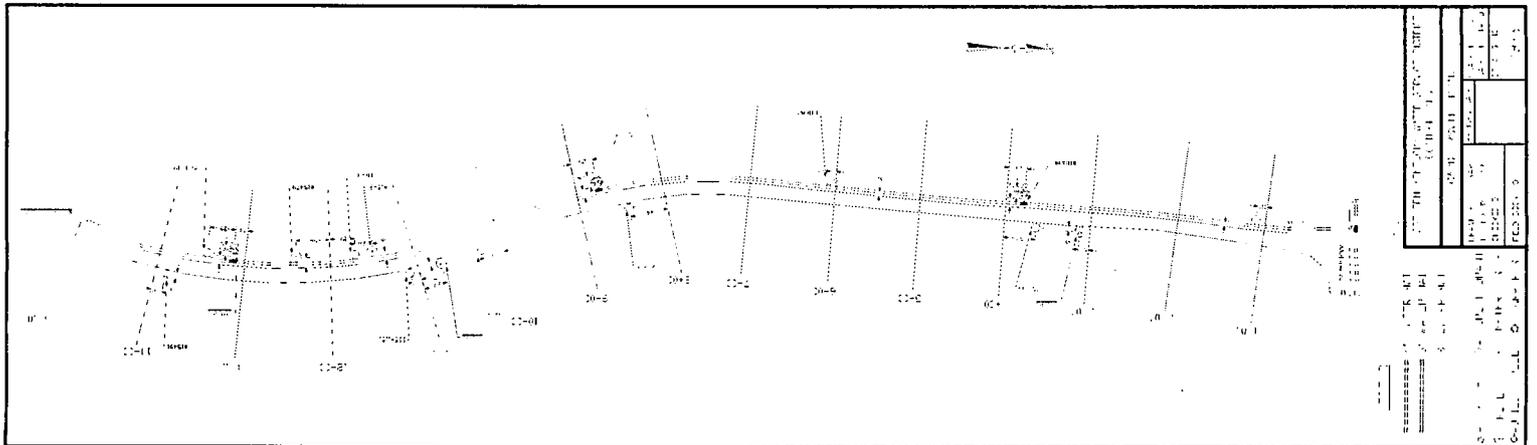




PLAN

U.S. AIR FORCE
 AIR FORCE ENGINEERING CENTER
 WRIGHT-PATTERSON AIR FORCE BASE
 DAYTON, OHIO

U.S. AIR FORCE AIR FORCE ENGINEERING CENTER WRIGHT-PATTERSON AIR FORCE BASE DAYTON, OHIO	
PROJECT NO.	64-1-1-1-1
DATE	1-1-64
SCALE	AS SHOWN
DESIGNED BY	W. J. B. / J. B. B.
CHECKED BY	W. J. B. / J. B. B.
APPROVED BY	W. J. B. / J. B. B.
TITLE	FLOOR PLAN



1. TITLE: SHAFT AND SUPPORT ASSEMBLY 2. DATE: 10/15/50 3. DRAWN BY: J. H. ... 4. CHECKED BY: ...	
5. PART NO.: ... 6. QUANTITY: ... 7. MATERIAL: ... 8. FINISH: ... 9. TOLERANCES: ... 10. NOTES: ...	11. SCALE: ... 12. SHEET NO.: ... 13. TOTAL SHEETS: ...

JOHN N. HUGHES
Attorney at Law
Professional Service Corporation
124 WEST TODD STREET
FRANKFORT, KENTUCKY 40601

Telephone:
(502) 227-7270

Telecopier:
(502) 875-7059

April 28, 2000

APR 28 2000

GENERAL COUNSEL

Martin Huelsmann
Executive Director
Public Service Commission
211 Sower Blvd
Frankfort, Ky. 40601

RECEIVED

APR 28 2000

PUBLIC SERVICE
COMMISSION

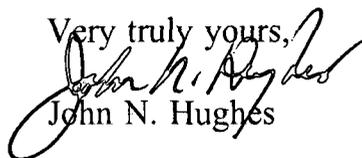
Re: Case 99-150

Dear Mr. Huelsmann:

Northern Kentucky Water District (NKWD) was authorized in Case No. 99-150 to make certain extension and additions to its water facilities. Because of favorable construction bids, approximately \$1,000,000 of the original \$5,187,800 remains unspent. The District has received approval from Rural Development, copy attached, to use these funds for related projects. A list of the projects is also attached.

This notice is being provided pursuant to 807 KAR 5:069, section 3. It is the District's understanding that no additional information or notification is required. However, if the Staff has any questions about this matter, please contact me.

Very truly yours,


John N. Hughes

and

Charles H. Pangburn III
Hemmer, Spoor, Pangburn,
DeFrank & Kasson PLLC
250 Grand Dr.
Ft. Mitchell, KY 41017

Attorneys for Northern Kentucky
Water District

cc: Ron Barrow
Don Gibson



United States
Department of
Agriculture

Rural
Development

1900 Midland Trail
Shelbyville, KY 40065-9113
502/633-0891 TTY 606/224-7422
FAX 502/633-0552

April 19, 2000

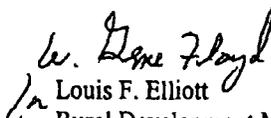
Northern Kentucky Water Service District
Attn: Don Gibson
P.O. Box 220
Cold Spring, Ky. 41076

Dear Mr. Gibson:

As you are aware Rural Development is involved in a waterline extension project in Southern Kenton County. The original scope included waterline extensions to serve several users that do not have an adequate water source. The total cost of this proposal was to be \$5,187,800.00, which included a Rural Development loan of \$2,287,000.00 and other matching funds. As the three contracts near completion the District is requesting to use the contingency funds for additional waterline extensions. The amount in the contingency is approximately \$1,000,000.00. Rural Development concurs in the use of the contingency funds in this manner.

If you should have any questions feel free to call.

Sincerely,


Louis F. Elliott
Rural Development Manager

The following is a breakdown of the remaining contingencies:

* 1,215,563.90	Contingencies from Page 4 C-2 of PSC Application
-179,400.00	R.E. Huber change order upgrade from 12" to 16" on Madison Pike
1,306,163.00	
- <u>100,000.00</u>	Blacktop & Restoration (all phases)
936,163.00	
-219,918.62	Change Order on Gardnersville Road and Paxton including 17% Eng. & Contingencies
716,244.38	
- <u>518,059.34</u>	Rich and Callant Roads including 10% contingencies
198,185.98	Remaining monies left for contingencies on all phases.

See attached PSC application Exhibit – C2 Page 4 of 4

N.K.W.S.D.
EXHIBIT-C2
PAGE 4 of 4

DATE: 3/18/99

SUBDISTRICT - C (Proposed)
Revised to include free service lines
for low to moderate income residents

STREET	DISTANCE MILES	TOTAL AVAIL. CUST	UST SIGN	CUST. PER/MI	EST. CONST.
Ph. 1 Green Road & U.S. 25	8.6	151	113	13.14	\$922,371
Cost to Upgrade to 12 in.	8.6	N/A	N/A	N/A	\$564,208
Ph. 2 Ky 17(Gleason to County Line) & Hemphling Rd (First 2.1 miles) & Spillman Rd	8.80	243	161	18.30	\$910,726
Cost to Upgrade to 12 in. & 16 in,	5.70	N/A	N/A	N/A	\$460,602
Ph. 3 Staffordsburg Rd.[Old Decoursey] (Ky 16 to Martin Road) Martin Road (Subdist. B to Staff. Rd) Rector Road (Subdist. B to Kent. St.)	3.50	85	56		\$414,291.1
Cost to Upgrade Staff. To 12 in.	2.40	N/A	N/A	N/A	\$152,738
	20.90	479	330	15.79	\$3,424,936.1
	20.90 miles		69%		

D
E
F
G
H
I
J

Cost Estimate:

Development	\$3,424,936.1
Land & Rights	\$10,000
Engineering	\$384,800
Legal & Administration	\$42,500
Interest	\$120,000
Contingencies	* \$1,215,563.9
	\$5,187,800

Source of Funds:

Community Development Block Grant	\$886,800
Tap-on Fees	\$76,000
Community Fund Raising	\$10,000
County Contribution	\$100,000
Upgrades (NKWSD Bond Issue)	\$1,828,000
Financed thru surcharge (FmHA Loan)	\$2,287,000
	\$5,187,800

JOHN N. HUGHES
Attorney at Law
Professional Service Corporation
124 WEST TODD STREET
FRANKFORT, KENTUCKY 40601

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April 28, 2000

Martin Huelsmann
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PUBLIC SERVICE
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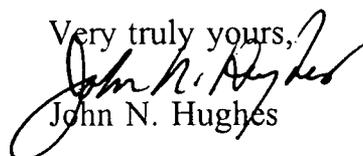
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Ft. Mitchell, KY 41017

Attorneys for Northern Kentucky
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cc: Ron Barrow
Don Gibson



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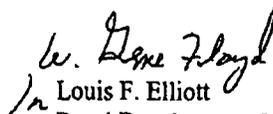
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COMMONWEALTH OF KENTUCKY
PUBLIC SERVICE COMMISSION
730 SCHENKEL LANE
POST OFFICE BOX 615
FRANKFORT, KY. 40602
(502) 564-3940

CERTIFICATE OF SERVICE

RE: Case No. 99-150
NORTHERN KENTUCKY WATER SERVICE DISTRICT

I, Stephanie Bell, Secretary of the Public Service Commission, hereby certify that the enclosed attested copy of the Commission's Order in the above case was served upon the following by U.S. Mail on May 17, 1999.

See attached parties of record.

Stephan Bell
Secretary of the Commission

SB/hv
Enclosure

Mr. Dennis L. Willaman
General Manager
Northern Kentucky Water
Service District
100 Aqua Drive
P. O. Box 220
Cold Spring, KY. 41076

Honorable James M. Honaker
Attorney at Law
Sower Building
219 St. Clair Street
Frankfort, KY. 40601

Honorable John N. Hughes
Attorney at Law
124 West Todd Street
Frankfort, KY. 40601

Charles H. Pangburn
404 Long Meadow Lane
Covington, KY. 41017

Mr. Don Gibson
Engineering Supervisor
Northern KY Water Service District
3049 Dixie Highway
P.O. Box 17010
Covington, KY. 41017

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

THE APPLICATION AND MOTION OF NORTHERN)
KENTUCKY WATER SERVICE DISTRICT TO)
CONSTRUCT AN EXTENSION, SUB-DISTRICT C,)
TO SERVE APPROXIMATELY 400 NEW)
CUSTOMERS, AND TO INSTITUTE A SURCHARGE) CASE NO. 99-150
UNDER KRS 278.023 WITH NO CHANGE IN)
NORTHERN'S GENERAL WATER RATES;)
ESTIMATED FUNDING OF \$5,200,000 IN LARGE)
MEASURE BY USDA, PLUS COMMUNITY)
EFFORTS)

O R D E R

On April 23, 1999, Northern Kentucky Water Service District ("Northern District") submitted an application for a Certificate of Public Convenience and Necessity to construct a \$5,187,800 waterworks improvement project, for approval of its plan of financing for this project, and for adjustments to its water service rates. This project will provide new service to 345 additional customers. Project funding is a \$2,287,000 bond issue to be purchased pursuant to an agreement with the U. S. Department of Agriculture's Rural Development ("RD"), a \$1,828,000 private bond issue, a \$886,800 Community Development Block Grant ("CDBG") grant, a \$100,000 contribution from the Kenton County Fiscal Court, a \$10,000 contribution from a local fund raising, and a \$76,000 contribution from the Applicant.

Northern District's application was made pursuant to KRS 278.023, which requires the Commission to accept agreements between water utilities and the U. S. Department

of Agriculture or the U. S. Department of Housing and Urban Development and to issue the necessary orders to implement the terms of such agreements within 30 days of satisfactory completion of the minimum filing requirements. Given that minimum filing requirements were met in this case on April 23, 1999, KRS 278.023 does not grant the Commission any discretionary authority to modify or reject any portion of this agreement.

IT IS THEREFORE ORDERED that:

1. Northern District is hereby granted a Certificate of Public Convenience and Necessity for the proposed construction project.
2. Northern District's proposed plan of financing with RD is accepted.
3. Northern District is authorized to issue bonds not to exceed \$4,115,000.
4. Northern District shall file a copy of the "as-built" drawings and a certified statement that the construction has been satisfactorily completed in accordance with the contract plans and specifications within 60 days of the substantial completion of the construction certificated herein.
5. The rates set out in Appendix A, which is attached hereto and incorporated herein, are the rates approved for service rendered on and after the date of this Order.
6. Northern District shall submit its revised tariff setting out the rates in Appendix A within 30 days of the date of this Order.
7. Three years from the effective date of this Order Northern District shall file an income statement, along with any pro forma adjustments, in sufficient detail to

demonstrate that the rates approved herein are sufficient to meet its operating expenses and annual debt service requirements.

Nothing contained herein shall be deemed a warranty of the Commonwealth of Kentucky, or any agency thereof, of the financing herein accepted.

Done at Frankfort, Kentucky, this 17th day of May, 1999.

By the Commission

ATTEST:


Executive Director

APPENDIX A

APPENDIX TO AN ORDER OF THE KENTUCKY PUBLIC SERVICE
COMMISSION IN CASE NO. 99-150 DATED MAY 17, 1999

The following rates and charges are prescribed for the customers in the area served by Northern Kentucky Water Service District in Sub-District C. All other rates and charges not specifically mentioned herein shall remain the same as those in effect under authority of the Commission prior to the effective date of this Order.

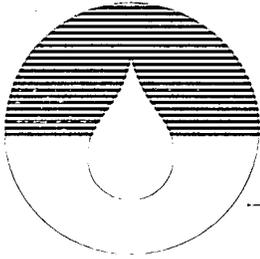
Monthly Water Rates

First	200 cubic feet	\$ 5.47	Minimum bill
Next	1,300 cubic feet	1.73	per 100 cubic feet
Next	163,500 cubic feet	1.49	per 100 cubic feet
Over	165,000 cubic feet	.90	per 100 cubic feet

A \$30.00 per month surcharge will be assessed to the customers served in Sub-District C.

Mundy
Grubbs
Bridwell
Heikes
Miller
Ware
Rowe

(7)



*Northern Kentucky
Water Service District*

April 28, 1999

RECEIVED
MAY 03 1999
PUBLIC SERVICE
COMMISSION

Honorable Helen Helton
Public Service Commission
730 Schenkel Lane
P.O. Box 615
Frankfort, Kentucky 40602

Re: Case No 99-150

Dear Executive Director Helton,

Enclosed please find the original and five copies of the affidavit for the public notice in regards to Case No. 99-150

Should you need any additional information, please give me a call at 1-606-441-2543.

Very truly yours,
NORTHERN KENTUCKY WATER SERVICE DISTRICT

Ronald J. Barrow, MPA
Asst. General Manager

RJB/ak

THE CINCINNATI ENQUIRER
THE CINCINNATI POST
THE KENTUCKY POST

312 ELM STREET
CINCINNATI, OHIO 45202-2754
(513) 721-2700

AFFIDAVIT

(CASE NUMBER) RON BARROW
(CAPTION COPY) SERVICE AND RATES
(QUOTED COST) \$226.64
(AD #) 22187
(ORDER #) 62083

STATE OF OHIO, SS.
HAMILTON COUNTY,

PERSONALLY APPEARED BEFORE ME,

A NOTARY PUBLIC, IN AND FOR HAMILTON

COUNTY, OHIO *Linda Theobald*

WHO, BEING DULY SWORN, SAYS THAT THE

ANNEXED ADVERTISEMENT WAS PUBLISHED

IN THE

KENTUCKY POST

DAILY NEWSPAPERS 3 TIMES TO WIT:

April 2, 9 and 16, 1999.

[Signature]
.....
AFFIANT

SWORN TO AND SUBSCRIBED BEFORE ME THIS

No DAY OF *April*, 1999.

[Signature]
.....

NOTARY PUBLIC
ANITA L. ALEXANDER

Notary Public, State of Ohio

My Commission Expires Aug. 7, 2000

NOTICE OF FUTURE WATER SERVICE AND RATES

In a Section of Rural Kenton County, funded in part by a Federal Agency loan, Northern Kentucky Water Service District will seek approval of the Public Service Commission of Kentucky to furnish potable water service in Sub-District C. This is a rural area in southern Kenton County which includes the following streets: Madison Pike, Green Road, Dixie Highway, Staffordsburg Road (Maverick to Martin Rd.), Martin Road, Rector Road, Hempling Road (1st 2.1 miles off of KY 17), Spillman Road. Construction cost of Sub District C will exceed five million dollars. The federally mandated consumer rates will be: PRELIMINARY NORTHERN KY WATER SERVICE DISTRICT, MONTHLY WATER RATES FOR PROPOSED SUB-DISTRICT C (Subdistrict C Project). ESTIMATED MONTHLY SURCHARGE OF \$30.00 IS INCLUDED IN \$35.47 MONTHLY MINIMUM BILL. Monthly rates in cubic feet as follows: First 200 cubic feet - 35.47 monthly minimum bill. Next 1,300 cubic feet - 1.73 per 100 cubic feet. Next 163,500 cubic feet - 1.49 per 100 cubic feet. Over 163,500 cubic feet - .90 per 100 cubic feet. Monthly rates in gallons as follows: First 1,496 gallons - 35.47 monthly minimum bill. Next 9,724 gallons - 2.31 per 1000 gallons = 22.46. Next 1,222,980 gallons - 1.98 per 1000 gallons = 2421.50. Over 1,222,980 gallons - 1.20 per 1000 gallons = 1467.58. Sample monthly bill amount as follows: Estimated monthly usage of 4,000 gallons - Estimated monthly bill = \$39.24. Note: Actual bill will vary according to actual usage measured. Rates in all other areas will remain unchanged. For further information, contact the PSC of Kentucky at P.O. Box 615, Frankfort, KY 40602. (Tel: 1-800-772-4636). Or, contact the undersigned. Service will not be available before January 1, 2000. Northern Kentucky Water Service District, 3049 Dixie Highway, P.O. Box 17010, Edgewood, KY 41017, (606) 578-7890. 22187/62083



A WORLD OF DIFFERENT VOICES
WHERE FREEDOM SPEAKS



COMMONWEALTH OF KENTUCKY
PUBLIC SERVICE COMMISSION

730 SCHENKEL LANE
POST OFFICE BOX 615
FRANKFORT, KY. 40602
(502) 564-3940

April 30, 1999

To: All parties of record

RE: Case No. 99-150
NORTHERN KENTUCKY WATER SERVICE DISTRICT

The Commission staff has reviewed your response of April 23, 1999 and has determined that your application in the above case now meets the minimum filing requirements set by our regulations. Enclosed please find a stamped filed copy of the first page of your filing. This case has been docketed and will be processed as expeditiously as possible.

If you need further information, please contact my staff at 502/564-3940.

Sincerely,

A handwritten signature in cursive script that reads "Stephanie Bell".

Stephanie Bell
Secretary of the Commission

SB/sh
Enclosure

Mr. Dennis L. Willaman
General Manager
Northern Kentucky Water
Service District
100 Aqua Drive
P. O. Box 220
Cold Spring, KY. 41076

Honorable James M. Honaker
Attorney at Law
Sower Building
219 St. Clair Street
Frankfort, KY. 40601

Honorable John N. Hughes
Attorney at Law
124 West Todd Street
Frankfort, KY. 40601

Charles H. Pangburn
404 Long Meadow Lane
Covington, KY. 41017

Mr. Don Gibson
Engineering Supervisor
Northern KY Water Service District
3049 Dixie Highway
P.O. Box 17010
Covington, KY. 41017

FILED

APR 23 1999

PUBLIC SERVICE
COMMISSION
RECEIVED

APR 13 1999

PUBLIC SERVICE
COMMISSION

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

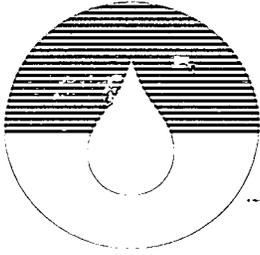
In the Matter of:

APPLICATION AND MOTION OF NORTHERN KENTUCKY)	
WATER SERVICE DISTRICT TO CONSTRUCT AN)	
EXTENSION, SUB-DISTRICT C, TO SERVE APPROXIMATELY)	CASE
400 NEW CUSTOMERS, AND TO INSTITUTE A SURCHARGE)	NO.
UNDER KRS 278.023 WITH NO CHANGE IN NORTHERN'S)	99-150
GENERAL WATER RATES; ESTIMATED FUNDING OF)	
\$5,200,000 IN LARGE MEASURE BY USDA, PLUS)	
COMMUNITY EFFORTS)	

APPLICATION
AND
MOTION

1. The full name and address of the Applicant is Northern Kentucky Water Service District, c/o Dennis Willaman, P.E., General Manager, 100 Aqua Drive, P. O. Box 220, Cold Spring, Kentucky 41076.

2. Northern Kentucky Water Service District, (Northern or District), is the lawful successor to the former Campbell County Kentucky Water District (originally established in 1953) and former Kentucky County Water District No. 1 (originally established in 1926). It has authority and duty to plan, design, extend, finance, construct, install, operate, upgrade, and maintain a water treatment system and water distribution system within its service area approved by the PSC.



*Northern Kentucky
Water Service District*

April 22, 1999

Honorable Helen Helton
Public Service Commission
730 Schenkel Lane
P.O. Box 615
Frankfort, Kentucky 40602

RECEIVED
APR 26 1999
PUBLIC SERVICE
COMMISSION

Re: Case No 99-150

Dear Executive Director Helton,

Enclosed please find the original and five copies of the affidavit for the public notice in regards to Case No. 99-150

Should you need any additional information, please give me a call at 1-606-441-2543.

Very truly yours,
NORTHERN KENTUCKY WATER SERVICE DISTRICT

Ronald J. Barrow, MPA
Asst. General Manger

RJB/ak

THE COMMUNITY PRESS
4910 PARA DRIVE
CINCINNATI OHIO 45237
PROOF OF PUBLICATION FOR:
The Kenton Community Recorder

NO KY WATER SERVICE DISTRICT
RONALD J. BARROW
100 AQUA DR
COLD SPRING KY 41076

REFERENCE: 1706467
824028 NOTICE OF FUTURE WAT

Personally appeared before me, the undersigned authority, within and for the said County, is a representative of the stated newspaper published weekly and of general circulation in said County, made oath that the annexed advertisement was published in the stated newspaper, for the stated date, and that each proceeding insertion was upon the same day of each week, viz Wednesday/Thursday.

Sworn to and subscribed before me, this 20
day of April A. D. 19 99
in Kenton County.

Notary Public Edna M. Brooks

My Commission Expires 3/27/2002

PUBLISHED ON: 04/01 04/08 04/15

TOTAL COST: 337.05 AD SPACE: 15.000 INCH
FILED ON: 04/15/99

Customer Service is available during regular business hours
8:30 am - 5:00 pm Monday through Friday at
(513) 242 - 4300 ext 233

Legal notice

NOTICE OF FUTURE WATER SERVICE AND RATES

In a Section of Rural Kenton County, funded in part by a Federal Agency loan, Northern Kentucky Water Service District will seek approval of the Public Service Commission of Kentucky to furnish potable water service in Sub-District C. This is a rural area in southern Kenton County which includes the following streets:

Madison Pike
Green Road
Dixie Highway
Staffordsburg Road (Maverick to Martin Rd.)
Martin Road
Rector Road
Hempfling Road (1st 2.1 miles off of Ky 17)
Spillman Road

Construction cost of Sub District C will exceed five million dollars. The federally mandated consumer rates will be:

PRELIMINARY NORTHERN KY. WATER SERVICE DISTRICT MONTHLY WATER RATES FOR PROPOSED SUBDISTRICT C (Subdistrict C Project)

**ESTIMATED MONTHLY SURCHARGE OF \$30.00 IS INCLUDED
IN \$35.47 MONTHLY MINIMUM BILL**

Monthly rates in cubic feet as follows:

First	200 cubic feet	35.47 monthly minimum bill
Next	1,300 cubic feet	1.73 per 100 cubic feet
Next	163,500 cubic feet	1.49 per 100 cubic feet
Over	163,500 cubic feet	.90 per 100 cubic feet

Monthly rates in gallons as follows:

First	1,496 gallons	35.47 monthly minimum bill
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Sample monthly bill amount as follows:

Estimated monthly usage of 4,000 gallons
Estimated monthly bill = \$39.24

Note: Actual bill will vary according to actual usage measured

Rates in all other areas will remain unchanged.

For further information contact the PSC of Kentucky at P.O. Box 615, Frankfort, KY 40602, (Tel: 1-800-772-4636). Or contact the undersigned. Service will not be available before January 1, 2000.

Northern Kentucky Water Service District
3049 Dixie Highway P.O. Box 17010
Edgewood, KY 41017
(606) 578-7890

Repairs • Rewiring
Residential • Commercial • Industrial

BELLEVUE
261-8269

CRESCENT
578-

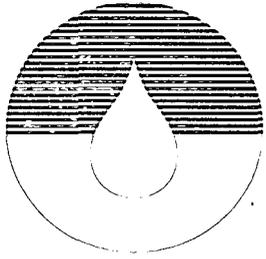


Call for details!

1-800-

Check us out on

Make summ in the Seve



Northern Kentucky
Water Service District

RECEIVED

APR 23 1999

PUBLIC SERVICE
COMMISSION

MEMO:

TO: Stephanie Belle
Secretary to the Commission

FROM: Don Gibson
Engineering Supervisor N.K.W.S.D.

DATE: 4/22/99

REGARDING: Sub District C project
Case # 99-150

Dear Miss Belle,

Enclosed are documents as requested in your letter dated April 21, 1999. If there is anything else I can be of assistance with, please do not hesitate to do so.

Sincerely,

Don Gibson
Engineering Supervisor
N.K.W.S.D.

RECEIVED

APR 23 1999

PUBLIC SERVICE
COMMISSION

N.K.W.S.D.
EXHIBIT-C2
PAGE 1 OF 4

FINAL ENGINEERING REPORT

STATE OF KENTUCKY
JAMES H. VIOX III
6880
LICENSED PROFESSIONAL ENGINEER



VIOX & VIOX, INC.

Consulting Engineers & Surveyors

FINAL ENGINEERING REPORT NORTHERN KENTUCKY WATER SERVICE DISTRICT SUB-DISTRICT C WATER MAIN EXTENSION

The bids received on March 12, 1999 included three projects that represent Sub-District C water main extensions on Green Road, US 25, Ky #17, Hempfling Road, Spillman Road, Staffordsburg Road, Martin Road and Rector Road. Estimates were prepared on 8/4/97 and updated on 3/1/99 for these projects. The following is a comparison of the construction cost portions estimated as compared to the bids received.

• Planning

<u>PROJECT</u>	<u>CONST. COST EST. 8/4/97</u>	<u>CONST. COST EST. 3/1/99</u>	<u>CONST. COST BID</u>
Phase I (Green Road & US 25)	\$1,732,230.00	\$1,770,600.00	\$1,486,579.00
Phase II (Ky #17, Hempfling Road & Spillman Road)	\$1,815,115.00	\$1,864,684.00	\$1,371,328.00
Phase III (Staffordsburg Road, Martin Road & Rector Road)	\$ 645,550.00	\$ 668,590.00	\$ 567,029.10
TOTAL PROJECT Construction Cost w/o Engineering, GeoTech, or Misc.	\$4,192,895.00	\$4,303,874.00	\$3,424,936.10

• Design

The total of the three bids (\$ 3,424,936.10) is less than the totals of the previous estimates prepared by our office.

• Surveying

Prepared By:
James H. Viox, III, P.E.

PRELIMINARY

PRELIMINARY NORTHERN KENTUCKY WATER SERVICE DISTRICT
MONTHLY WATER RATES FOR PROPOSED SUBDISTRICT C
(Subdistrict C Project)

ESTIMATED MONTHLY SURCHARGE OF \$30.00 IS INCLUDED
IN \$35.47 MONTHLY MINIMUM BILL

Monthly rates in cubic feet as follows:

First	200 cubic feet	35.47 monthly minimum bill
Next	1,300 cubic feet	1.73 per 100 cubic feet
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Sample monthly bill amount as follows:

Estimated monthly usage of 4,000 gallons
Estimated monthly bill = \$39.24

Note: Actual bill will vary according to actual usage
measured

DATE: 3/18/99

SUBDISTRICT - C (Proposed)
 Revised to include free service lines
 for low to moderate income residents

STREET	DISTANCE MILES	TOTAL AVAIL. CUST	UST SIGN	CUST. PER/MI	EST. CONST.
Ph. 1 Green Road & U.S. 25	8.6	151	113	13.14	\$922,371
Cost to Upgrade to 12 in.	8.6	N/A	N/A	N/A	\$564,208
Ph. 2 Ky 17(Gleason to County Line) & Hemphling Rd (First 2.1 miles) & Spillman Rd	8.80	243	161	18.30	\$910,726
Cost to Upgrade to 12 in. & 16 in,	5.70	N/A	N/A	N/A	\$460,602
Ph. 3 Staffordsburg Rd.[Old Decoursey] (Ky 16 to Martin Road) Martin Road (Subdist. B to Staff. Rd) Rector Road (Subdist. B to Kent. St.)	3.50	85	56		\$414,291.1
Cost to Upgrade Staff. To 12 in.	2.40	N/A	N/A	N/A	\$152,738
	20.90	479	330	15.79	\$3,424,936.1
	20.90 miles		69%		

Cost Estimate:

Development	\$3,424,936.1
Land & Rights	\$10,000
Engineering	\$384,800
Legal & Administration	\$42,500
Interest	\$120,000
Contingencies	\$1,215,563.9
	<u>\$5,187,800</u>

Source of Funds:

Community Development Block Grant	\$886,800
Tap-on Fees	\$76,000
Community Fund Raising	\$10,000
County Contribution	\$100,000
Upgrades (NKWSD Bond Issue)	\$1,828,000
Financed thru surcharge (FmHA Loan)	\$2,287,000
	<u>\$5,187,800</u>

RECEIVED

APR 23 1999

PUBLIC SERVICE
COMMISSION
N.K.WOOD
EXHIBIT-C1
PAGE 1 OF 51

**PRELIMINARY ENGINEERING REPORT
WATER FACILITY**

[Handwritten signature]
STATE OF KENTUCKY
JAMES H. WOOD III
1999
LICENSED PROFESSIONAL ENGINEER

APPLICATION FOR FEDERAL ASSISTANCE

1. TYPE OF SUBMISSION: Application <input type="checkbox"/> Construction <input type="checkbox"/> Non-Construction Preapplication <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Non-Construction	2. DATE SUBMITTED REV: 9-15-97	Applicant Identifier
	3. DATE RECEIVED BY STATE	State Application Identifier
	4. DATE RECEIVED BY FEDERAL AGENCY	Federal Identifier

5. APPLICANT INFORMATION

Legal Name Northern Kentucky Water Service District	Organizational Unit Special District
Address (give City, County, state and zip code) P.O. Box 17010 Covington, Kenton County, Kentucky 41017	Name and telephone number of the person to be contacted on matters involving this application (give area code) Richard Harrison, NKWSD OR Will Linder & Assoc., Consultants 606/578-7890 606/988-8408 FAX Number: 606/578-8458 606/988-4898

6. EMPLOYER IDENTIFICATION NUMBER (EIN):

7. TYPE OF APPLICANT: (enter appropriate letter in box) **G**

A. State	H. Independent School Dist.
B. County	I. State Controlled Institution of Higher Learning
C. Municipal	J. Private University
D. Township	K. Indian Tribe
E. Interstate	L. Individual
F. Intermunicipal	M. Profit Organization
G. Special District	

Other (Specify):

8. TYPE OF APPLICATION:

New Continuation Revision
 If Revision, enter appropriate letter(s) in box(es): Other
 A. Increase Award B. Decrease Award C. Increase Duration
 D. Decrease Duration Other (specify): Modification in Budget

9. NAME OF FEDERAL AGENCY:
 USDA Rural Development Administration

10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBER:

Title: Water Systems for Rural Communities

1 0 - 7 8 0

11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT:

The project will provide water to seven areas in southwestern kenton County. The system will utilize a combination of PVC and ductile iron to accommodate various pressures.

 An expanded Description of the Project and Needs and a detailed budget breakdown is attached.

12. AREAS AFFECTED BY PROJECT (cities, counties, states, etc.):
 Southern Kenton County, Kentucky

13. PROPOSED PROJECT:

14. CONGRESSIONAL DISTRICTS OF: Kentucky

Start Date
1-98

Ending Date
1-99

a. Applicant
4th District - Jim Bunning, Representative

b. Project
4th District, Jim Bunning, Representative

15. ESTIMATED FUNDING:

a. Federal (RD)	\$ 2,130,059.00
b. Applicant	\$ 168,500.00
c. State (CDBG)	\$ 1,000,000.00
d. Local Kenton Co.	\$ 50,000.00
e. Other -Community	\$ 10,000.00
f. Other-NKWSD Bond Issue	\$ 1,821,012.00
g. TOTAL	\$ 5,262,675.00

16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS?

a. YES. THIS PREAPPLICATION/APPLICATION WAS MADE AVAILABLE TO THE STATE EXECUTIVE ORDER 12372 PROCESS FOR REVIEW ON:
 DATE Sept. 4, 1998 Submitted with Ky. CDBG Application
 Copy of A-95 Comments are attached

b. NO. PROGRAM IS NOT COVERED BY E.O. 12372
 OR PROGRAM HAS NOT BEEN SELECTED BY STATE FOR REVIEW

17. IS THE APPLICANT DELINQUENT ON ANY FEDERAL DEBT?

Yes If "Yes", attach an explanation. No

18. TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL DATA IN THIS APPLICATION/PREAPPLICATION ARE TRUE AND CORRECT, THE DOCUMENT HAS BEEN DULY AUTHORIZED BY THE GOVERNING BODY OF THE APPLICANT AD THE APPLICANT WILL COMPLY WITH THE ATTACHED ASSURANCES IF THE ASSISTANCE IS AWARDED.

a. Typed Name of Authorized Representative Dennis L. Willaman	b. Title General Manager Northern Kentucky Water Service District	c. Telephone number 606 / 578-7890
d. Signature of Authorized Representative <i>Dennis L. Willaman</i>		e. Date Signed

BUDGET INFORMATION - Construction Programs

Revised August 26, 1996

NOTE: Certain Federal assistance programs require additional computations to arrive at the Federal share of project costs eligible for participation. If such is the case you will be notified.

COST CLASSIFICATION		a. Total Cost	b. Costs Not Allowable for Participation	c. Total Allowable Costs (Column a-b)
1.	Administrative and legal expenses (admin/planning/legal/bond con.)	\$20,000.00	\$49,500.00	\$69,500.00
2.	Land, structures, rights-of-way, appraisals, etc.	\$0.00	\$0.00	\$0.00
3.	Relocation expenses and payments	\$0.00	\$0.00	\$0.00
4.	Architectural and engineering fees (Eng. Design and 201 Plan)	\$191,077.00	\$110,811.00	\$301,888.00
5.	Other architectural and engineering fees	\$0.00	\$0.00	\$0.00
6.	Project inspection fees (Eng. Insp.)	\$111,461.00	\$64,641.00	\$176,102.00
7.	Site work	\$0.00	\$0.00	\$0.00
8.	Demolition and removal	\$0.00	\$0.00	\$0.00
9.	Construction (Water lines)	\$1,578,740.00	\$2,614,155.00	\$4,192,895.00
10.	Equipment	\$0.00	\$0.00	\$0.00
11.	Miscellaneous	\$0.00	\$0.00	\$0.00
12.	SUBTOTAL (sum of lines 1-11)	\$0.00	\$0.00	\$0.00
13.	Contingencies	\$0.00	\$0.00	\$0.00
14.	SUBTOTAL	\$185,176.00	\$217,114.00	\$402,290.00
15.	Project (program) income	\$2,130,059.00	\$3,132,616.00	\$5,262,675.00
16.	TOTAL PROJECT COSTS (subtract #15 from #14)	\$0.00	\$0.00	\$0.00
		\$2,130,059.00	\$3,132,616.00	\$5,262,675.00
FEDERAL FUNDING				
17.	Federal assistance requested, calculate as follows: (Consult Federal agency for Federal percentage share). Enter the resulting federal share.	Enter eligible costs from line 16c. Multiply x _____%		
		\$2,130,059.00		

Standard Form 424
Prescribed by OMB Circular

Authorized for Local Reproduction

**RURAL DEVELOPMENT REVISED 424 FORM
ATTACHMENTS**

CDBG PROJECT DESCRIPTION

PROJECT MAPS

**PROJECT BUDGET
AND ENGINEER'S ESTIMATES**

CDBG 1997 NEEDS SECTION

KENTUCKY A-95 CLEARINGHOUSE COMMENTS

BRIEF DESCRIPTION OF CDBG PROJECT (Maps included showing project location):

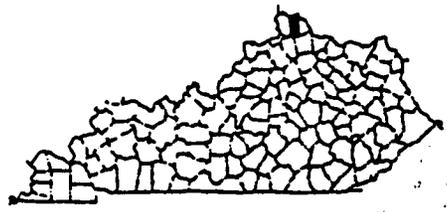
The Northern Kentucky Water Service District (formerly the Kenton County Water District #1) has planned for several years to expand service into the southern portion of Kenton County to serve a potential total of 436 new residential customers currently without potable water service; 258 or 59% of the new residential customers are low- and moderate-income households. The NKWSD will extend 20.3 miles of 8" water lines, with all appurtenances, and 75 fire hydrants to service the 436 new residential customers along six roads/areas: Staffordsburg Road, Spillman Road, Rector Road, Hempfling road, US 25/ Green Road, and Madison Pike (KY 17) with all appurtenances. Funding for the project is from the proposed Community Development Block Grant program in conjunction with Rural Development (RD) funds and local contributions.

In July 1996, the Public Service Commission approved Kenton & Campbell Counties' water districts to combine as the Northern Kentucky Water Service District, effective January 1, 1997. The Northern Kentucky Water Service District is a rural water district, governed by the Public Service Commission, coping with rapid population growth within Northern Kentucky and has constructed its water systems to handle the present and anticipated demands. The proposed project is located in the southwest portion of Kenton County and is classified as semi-urban. Construction standards and user fees differing from those of rural areas are applied in order to allow the Water Service District to undertake construction economically; reducing the need for upgrades on line size, reducing the cost of maintenance and significantly improving reliability. Presently, there are cast iron water lines in place that have served the district for over 100 years.

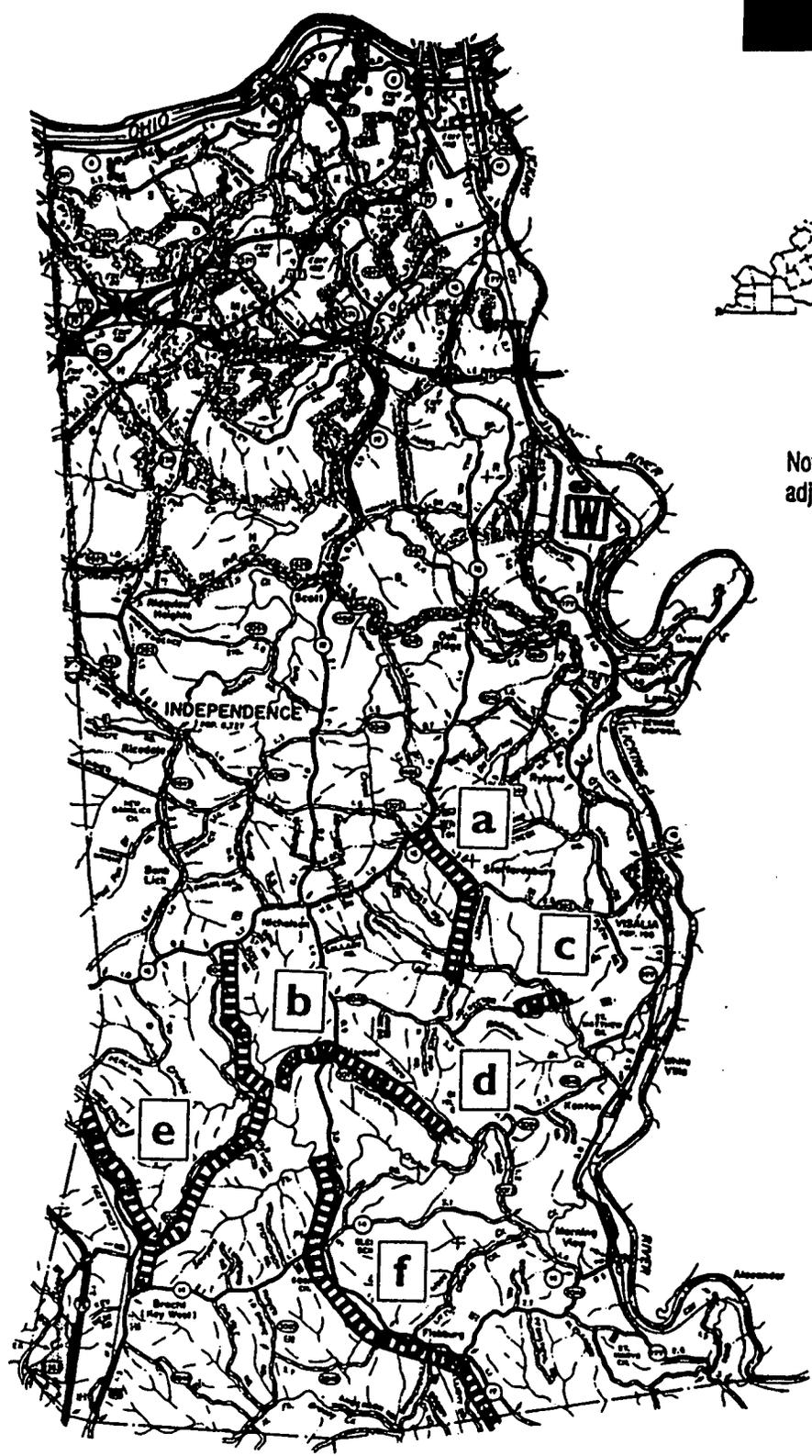
The six roads/areas to be served rely on cisterns for their water supply and hauled water costs them about \$80 a month for approximately 4,000 gallons (\$40 per load, with an average of 2 loads per month); each load is approximately 2,000 gallons. Within the past year, the rates have increased with only 2 major haulers supplying water to the area. Groundwater is not used to any significant degree in this area due to the poor characteristics of the area soils in treating septic discharges. Although people consider cisterns safer than using wells, where septic systems could contaminate groundwater, information from the Northern Kentucky District Health Department indicates that water samples collected from cisterns in their service area have had a standard contamination rate of 50%.

To provide potable water to these six areas, the project will install 20.3 miles of 8" waterline into Staffordsburg Road, Spillman Road, Rector Road, Hempfling Road, US 25/Green Road, and Madison Pike with CDBG/RD funds. Additional Rural Development funds will be used to provide potable water to an over-income area (Martin Road); this is not part of the CDBG project. The project has been restructured, using the minimum requirements for fire hydrants and the estimate for the CDBG/RD project using cost estimates based on 8" waterline. The Water Service District will utilize conventional financing to fund the "upgrade" to 12" or 16" ductile iron piping or C-900 PVC which is more expensive "front-end" than other systems but reduces future maintenance and improves reliability.

Project Area



Note: Sewer plants located in adjoining counties.



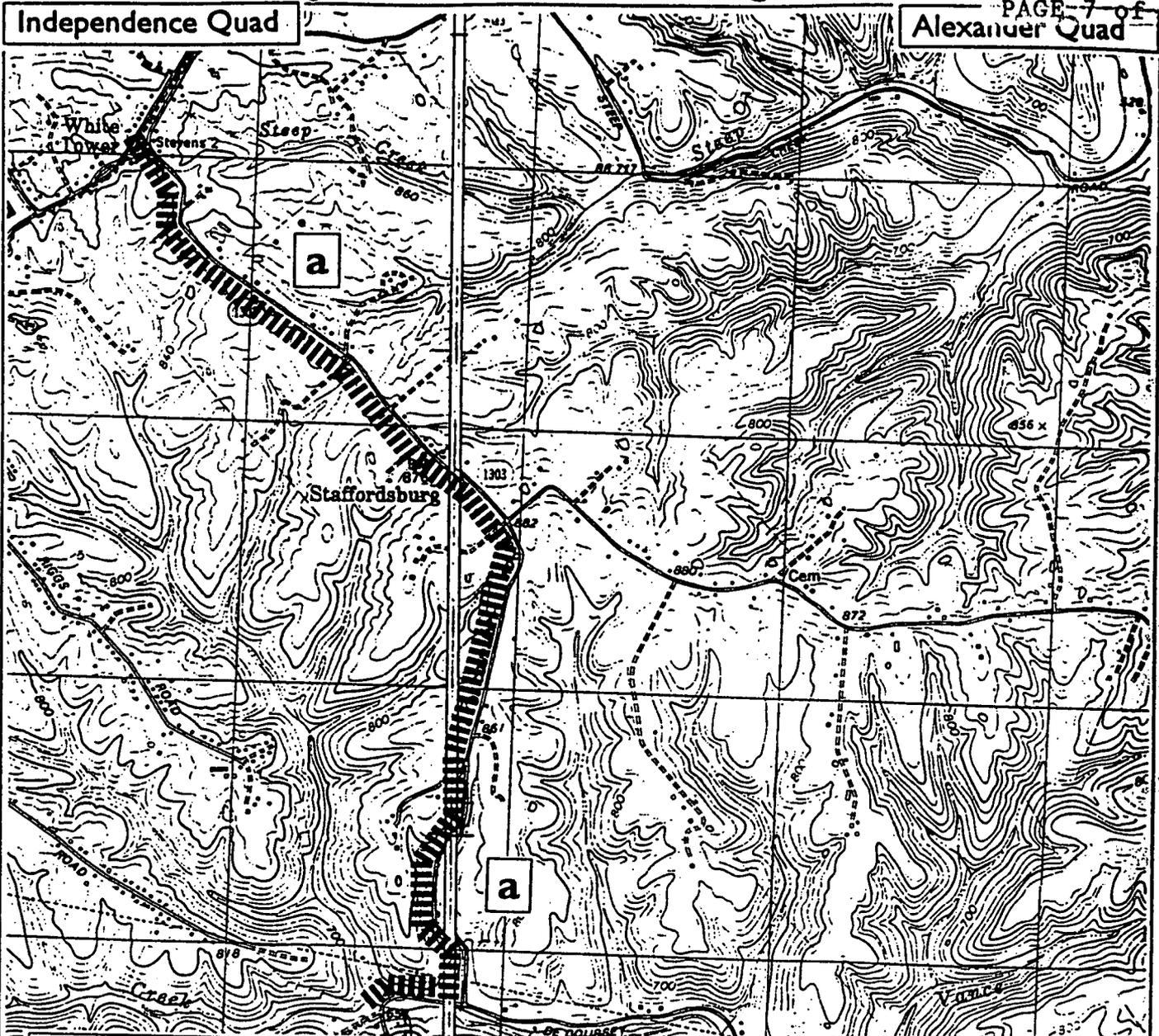
Project Map

Northern KY Water Service District
Expansion Project-Subdistrict C
Kenton County, Kentucky

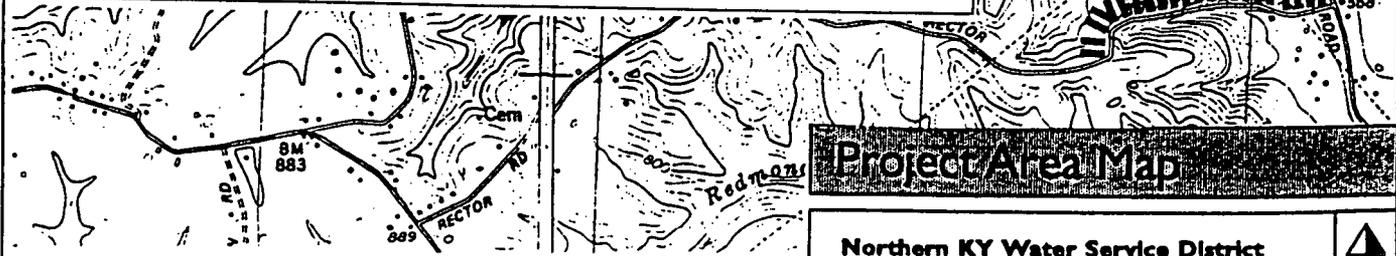
FEMA Community-Panel Number 210128
USGS 7.5 Topo/Specified Quads



-  Water Plant
-  Sewer Plant
-  Minority Concentrations



Line ID	Road Name	Customers to be Served	Length (Miles)	Water Customers per Mile
a	Staffordsburg Road	61	2.4	25.4
b	Spillman Road	26	1	26
c	Rector Road	8	.5	16
d	Hemphling Road	39	2.1	18.6
e	US25/Green Road	147	8.6	17.1
f	Madison Pike (KY 17)	155	5.7	27.2

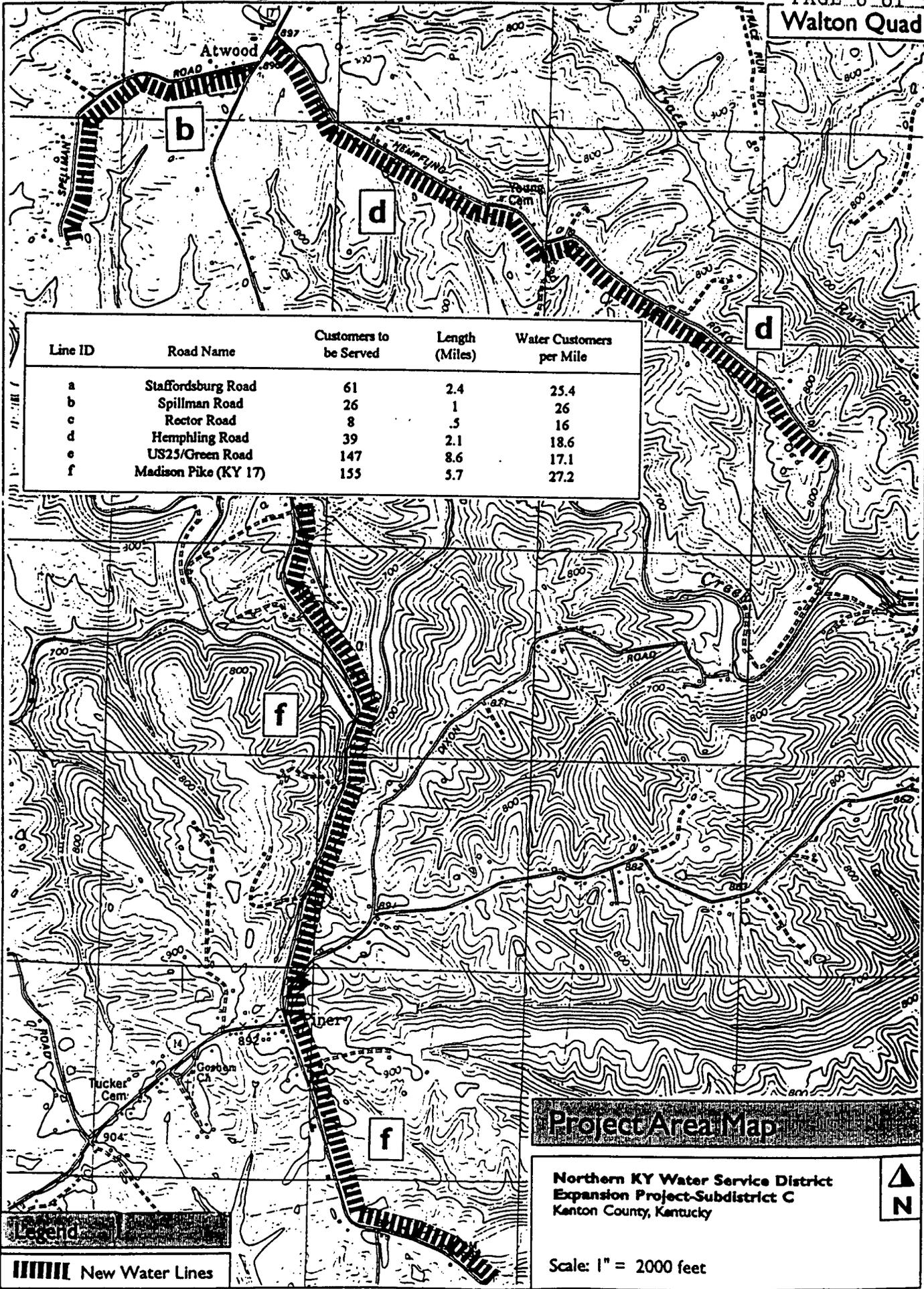


Legend
 New Water Lines

Project Area Map
 Northern KY Water Service District
 Expansion Project-Subdistrict C
 Kenton County, Kentucky

Scale: 1" = 2000 feet

Walton Quad



Line ID	Road Name	Customers to be Served	Length (Miles)	Water Customers per Mile
a	Staffordsburg Road	61	2.4	25.4
b	Spillman Road	26	1	26
c	Rector Road	8	.5	16
d	Hempling Road	39	2.1	18.6
e	US25/Green Road	147	8.6	17.1
f	Madison Pike (KY 17)	155	5.7	27.2

Project Area Map

Northern KY Water Service District
 Expansion Project-Subdistrict C
 Kenton County, Kentucky



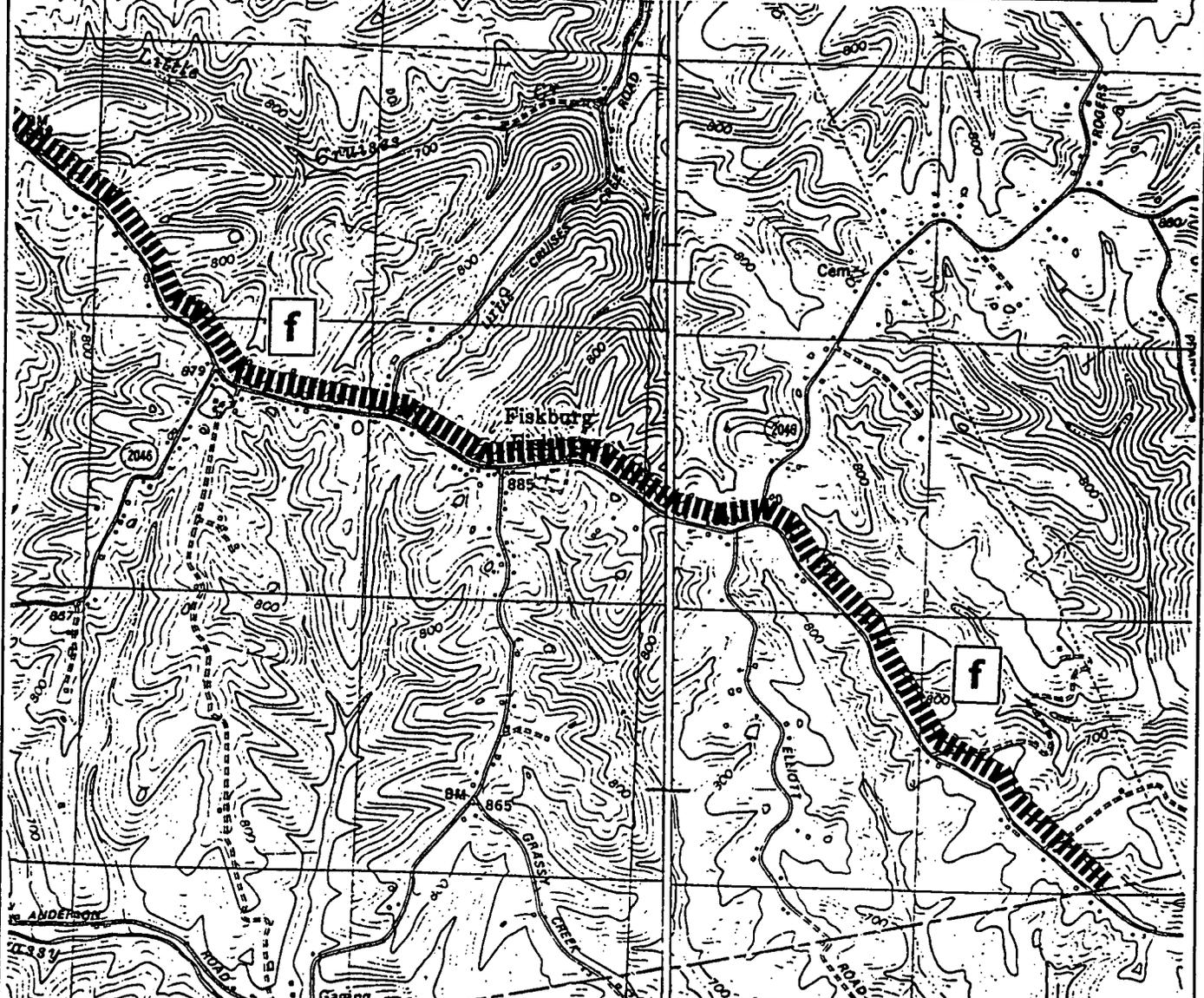
Scale: 1" = 2000 feet

Legend
 New Water Lines

Walton Quad

De Mossville Quad

Line ID	Road Name	Customers to be Served	Length (Miles)	Water Customers per Mile
a	Staffordsburg Road	61	2.4	25.4
b	Spillman Road	26	1	26
c	Rector Road	8	.5	16
d	Hemphing Road	39	2.1	18.6
e	US25/Green Road	147	8.6	17.1
f	Madison Pike (KY 17)	155	5.7	27.2



Legend

||||| New Water Lines

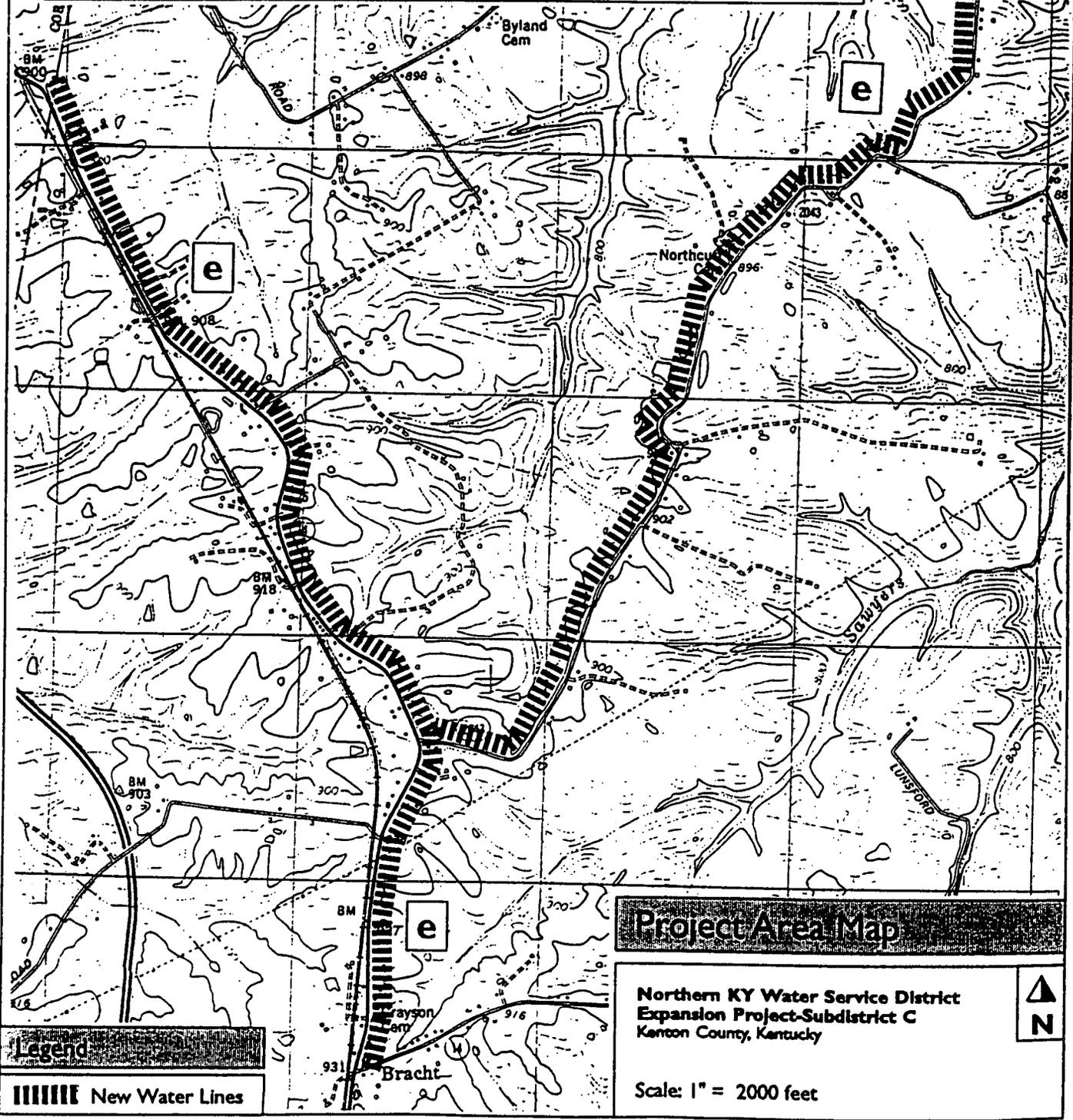
Project Area Map

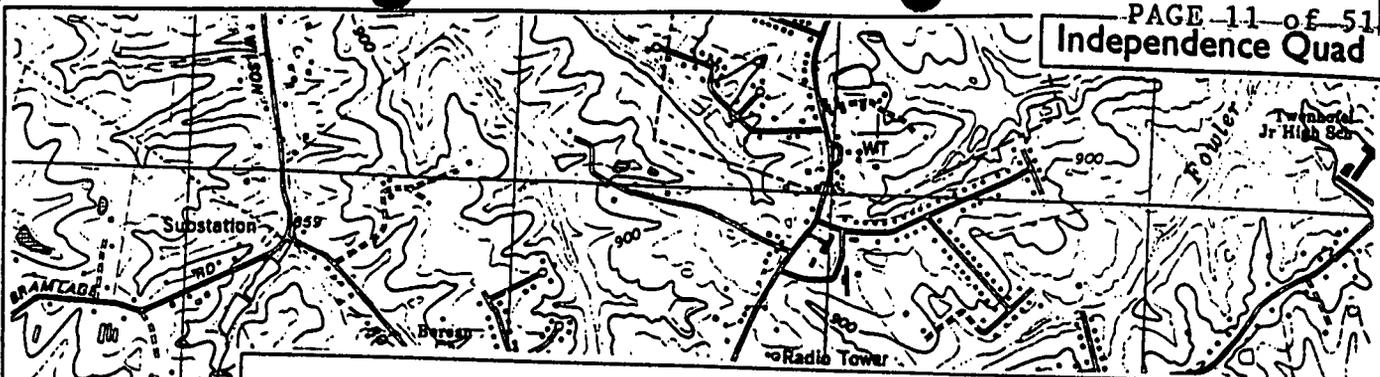
Northern KY Water Service District
 Expansion Project-Subdistrict C
 Kenton County, Kentucky



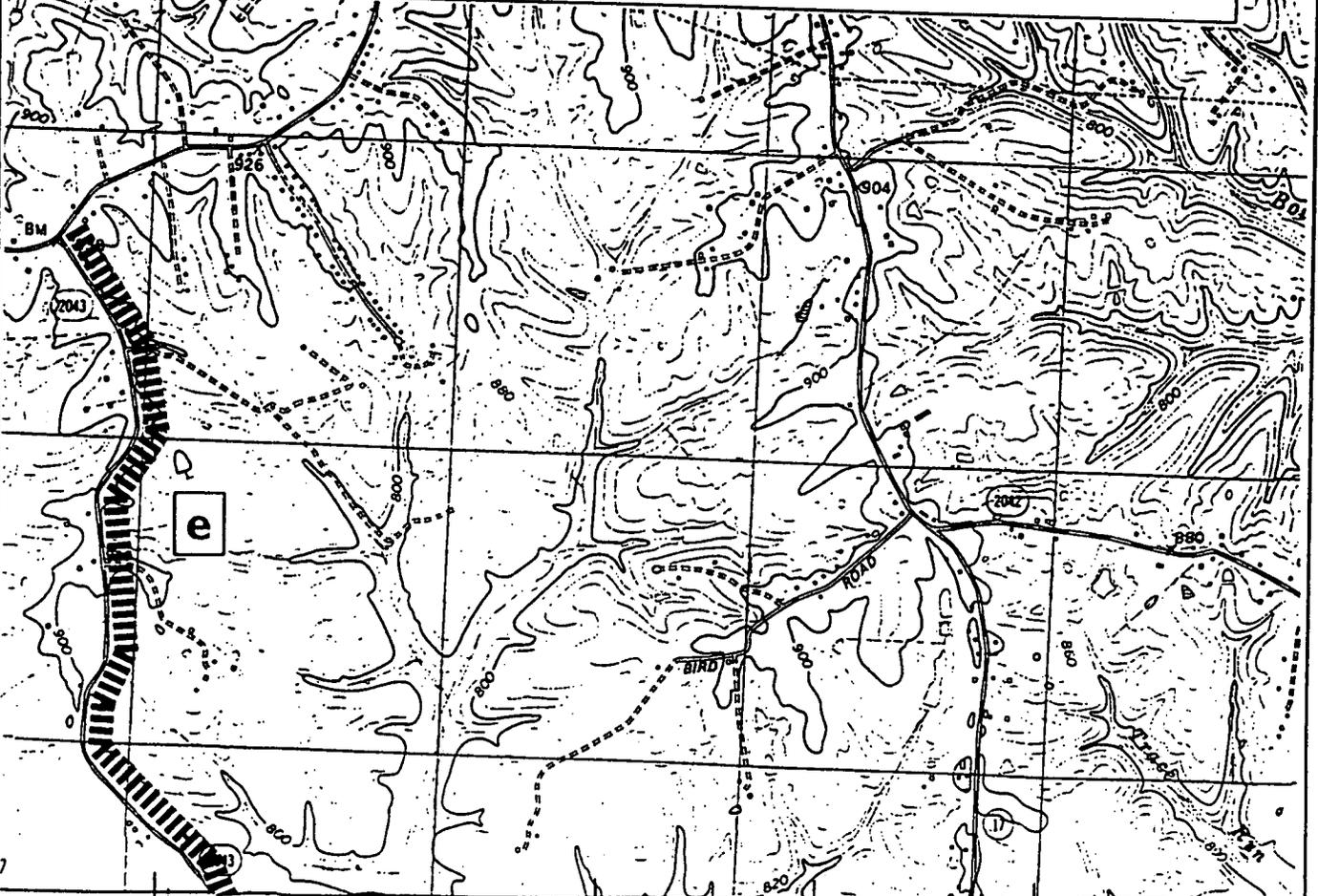
Scale: 1" = 2000 feet

Line ID	Road Name	Customers to be Served	Length (Miles)	Water Customers per Mile
a	Staffordsburg Road	61	2.4	25.4
b	Spillman Road	26	1	26
c	Rector Road	8	.5	16
d	Hemphling Road	39	2.1	18.6
e	US25/Green Road	147	8.6	17.1
f	Madison Pike (KY 17)	155	5.7	27.2





Line ID	Road Name	Customers to be Served	Length (Miles)	Water Customers per Mile
a	Staffordsburg Road	61	2.4	25.4
b	Spillman Road	26	1	26
c	Rector Road	8	.5	16
d	Hemphling Road	39	2.1	18.6
e	US25/Green Road	147	8.6	17.1
f	Madison Pike (KY 17)	155	5.7	27.2



711 (WALTON) 4061 1 SE 712 713 32'30" PNER 3.2 MI. 18 MI. TP U.S. 27
 SCALE 1:24 000

Project Area Map

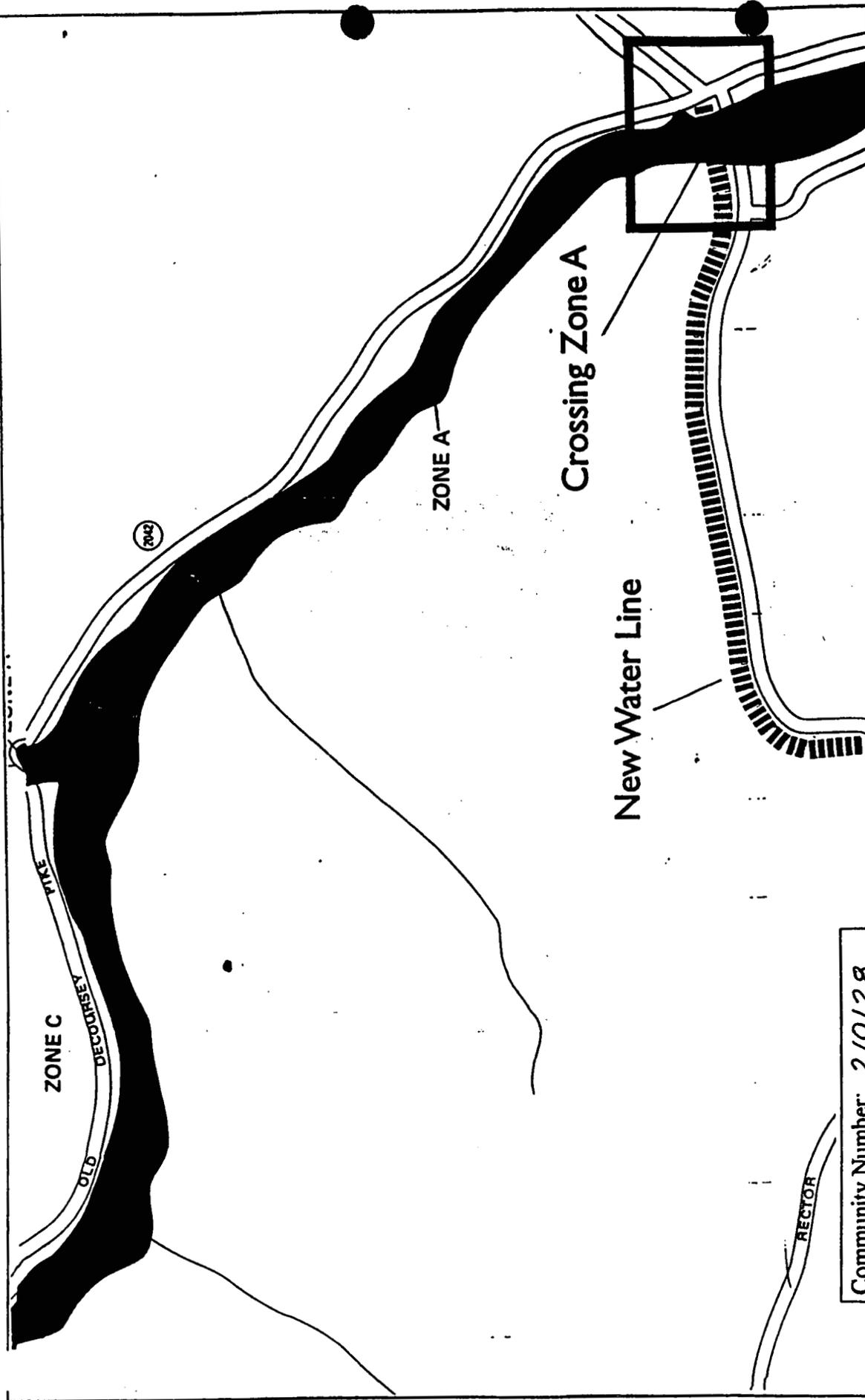
Northern KY Water Service District
 Expansion Project-Subdistrict C
 Kenton County, Kentucky



Legend

||||| New Water Lines

Scale: 1" = 2000 feet



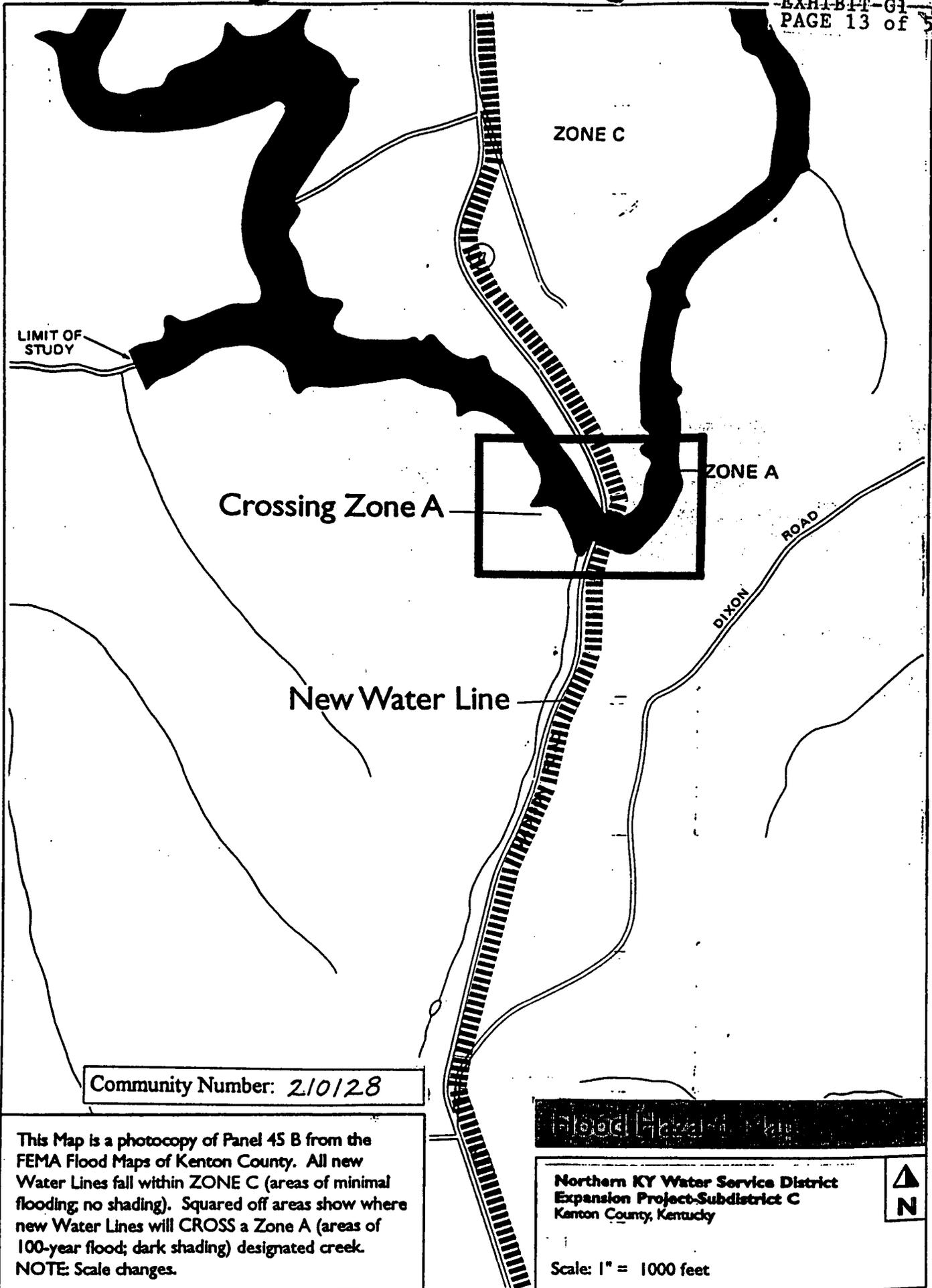
Flood Hazard

Northern KY Water Service District
Expansion Project-Subdistrict C
Kenton County, Kentucky

Scale: 1" = 500 feet

Community Number: 210128

This Map is a photocopy of Panels 36 B and 38 B from the FEMA Flood Maps of Kenton County. All new Water Lines fall within ZONE C (areas of minimal flooding; no shading). Squared off areas show where new Water Lines will CROSS a Zone A (areas of 100-year flood; dark shading) designated creek. NOTE: Scale changes.



Community Number: 210128

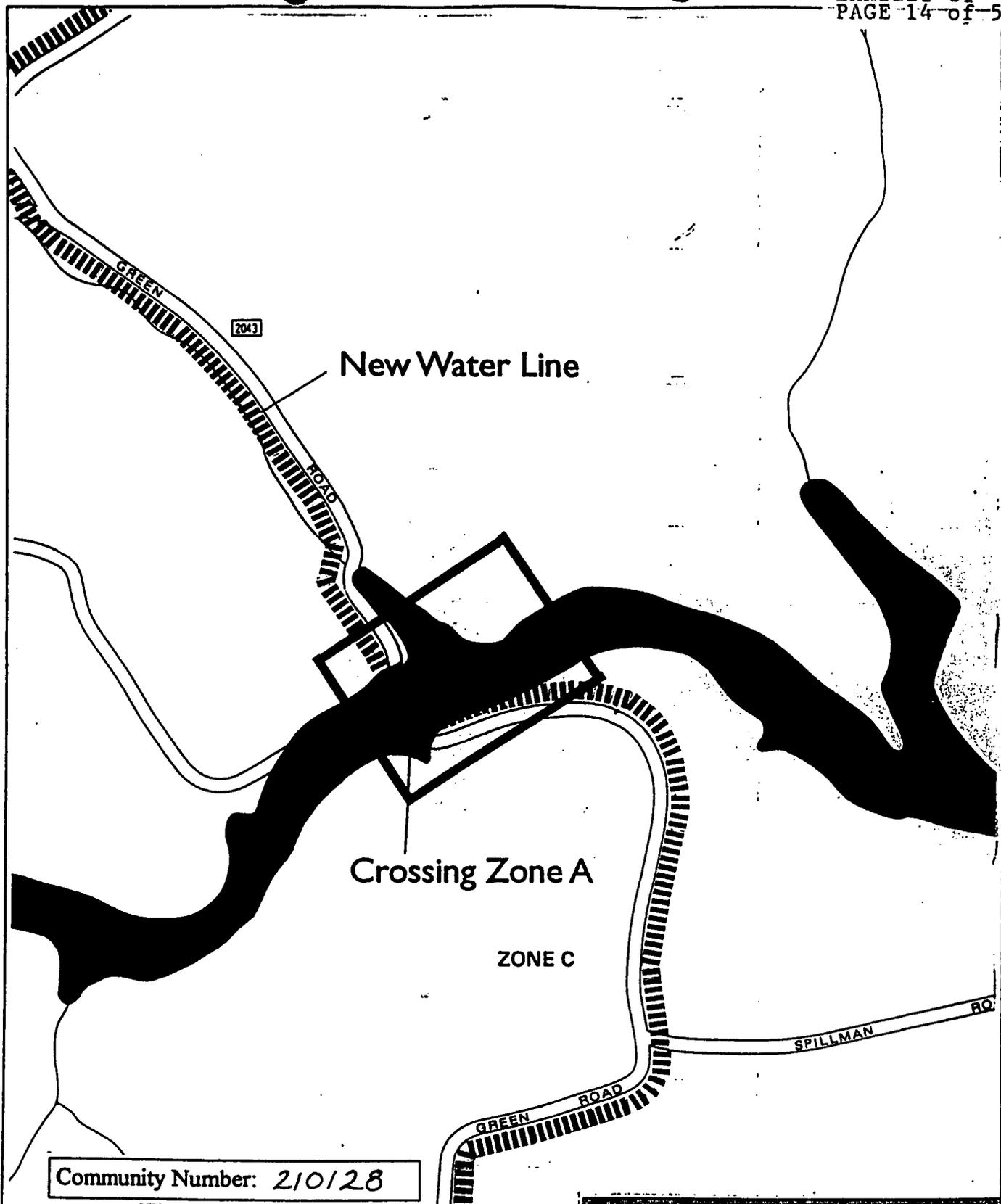
This Map is a photocopy of Panel 45 B from the FEMA Flood Maps of Kenton County. All new Water Lines fall within ZONE C (areas of minimal flooding; no shading). Squared off areas show where new Water Lines will CROSS a Zone A (areas of 100-year flood; dark shading) designated creek.
NOTE: Scale changes.

Flood Hazard Map

Northern KY Water Service District
Expansion Project-Subdistrict C
Kenton County, Kentucky



Scale: 1" = 1000 feet



Community Number: 210128

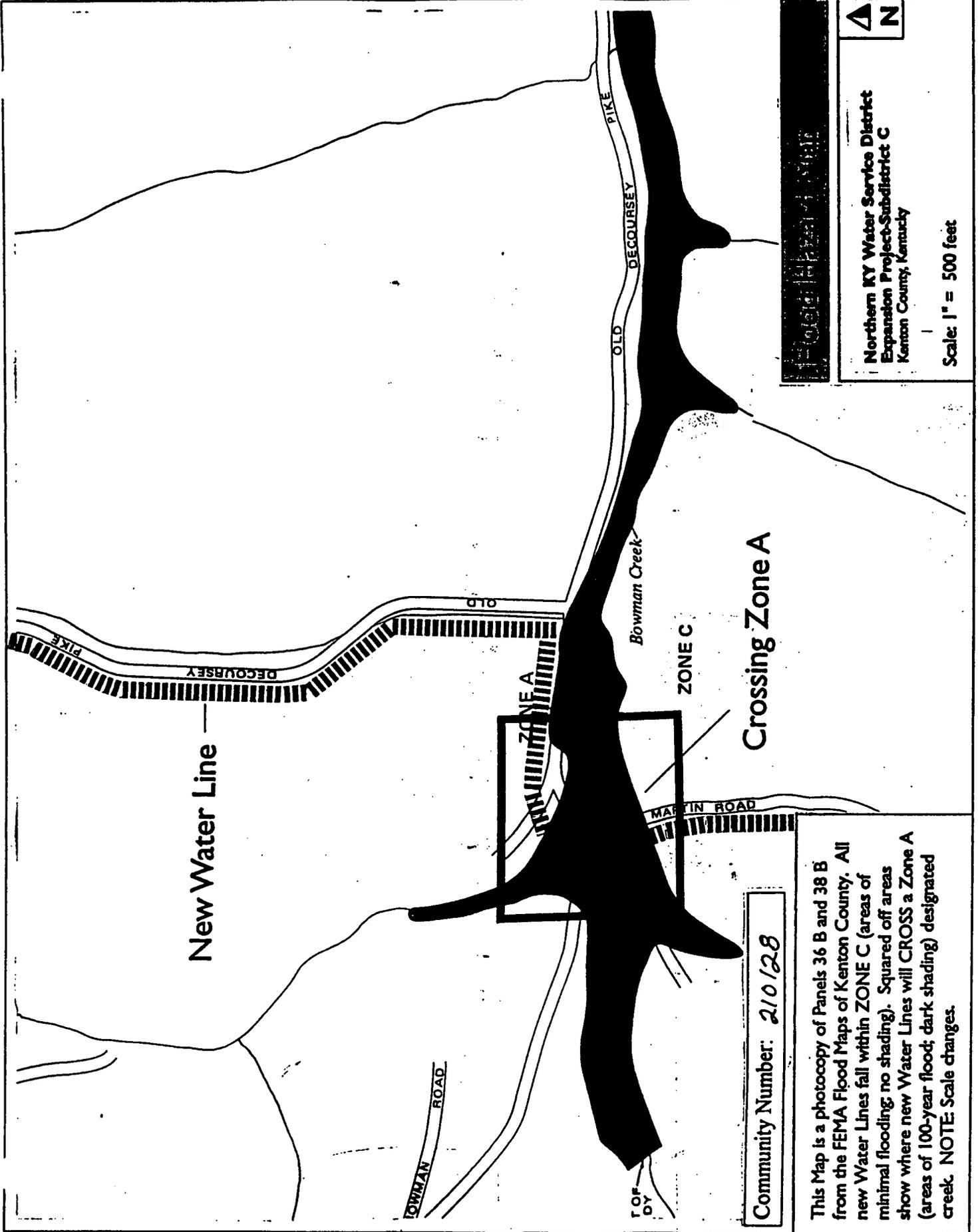
This Map is a photocopy of Panel 34 B from the FEMA Flood Maps of Kenton County. All new Water Lines fall within ZONE C (areas of minimal flooding; no shading). Squared off areas show where new Water Lines will CROSS a Zone A (areas of 100-year flood; dark shading) designated creek.
NOTE: Scale changes.

Flood Hazard Map

Northern KY Water Service District
Expansion Project-Subdistrict C
Kenton County, Kentucky



Scale: 1" = 500 feet



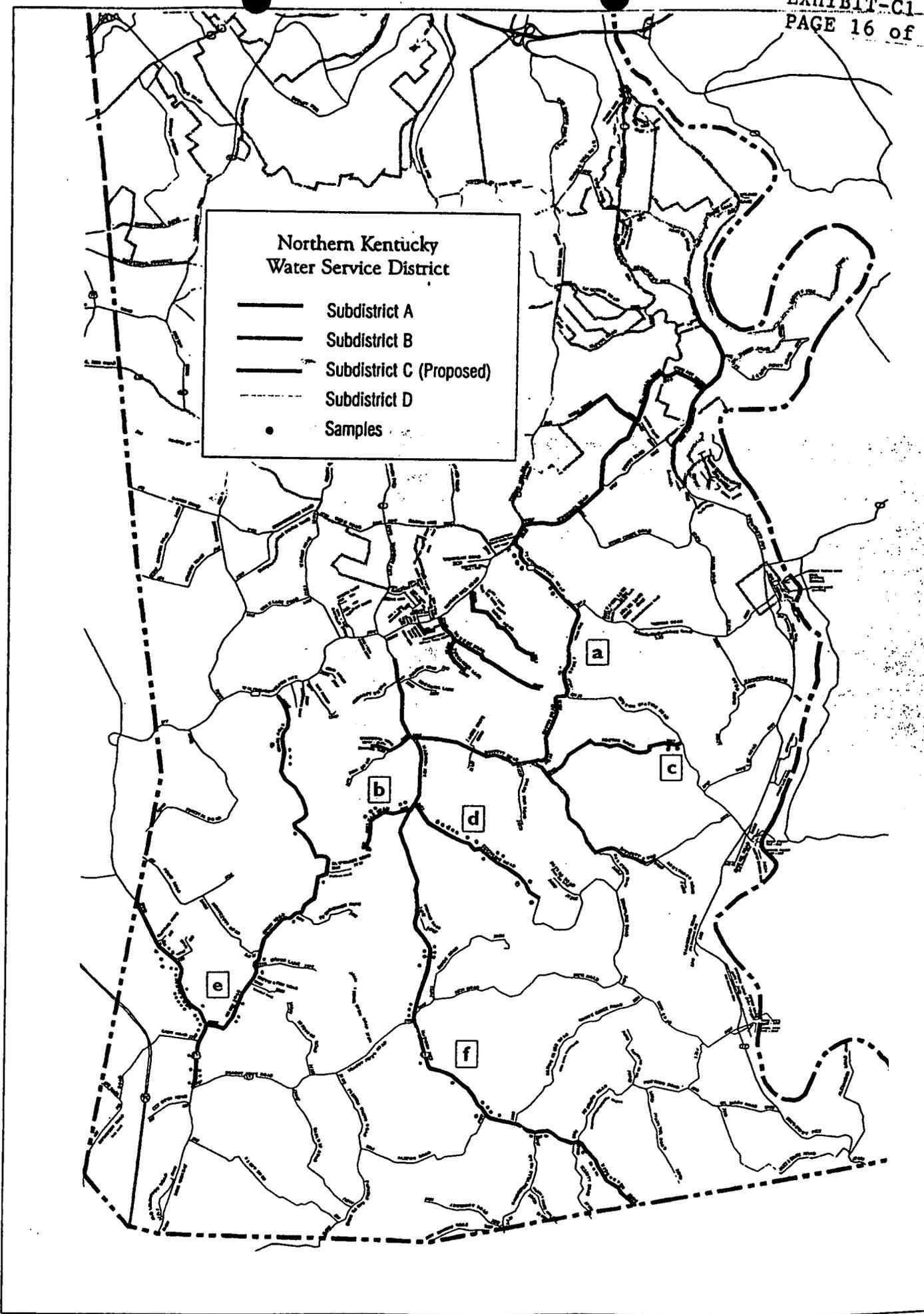
N

**Northern KY Water Service District
Expansion Project-Subdistrict C
Kenton County, Kentucky**

Scale: 1" = 500 feet

Community Number: 210128

This Map is a photocopy of Panels 36 B and 38 B from the FEMA Flood Maps of Kenton County. All new Water Lines fall within ZONE C (areas of minimal flooding; no shading). Squared off areas show where new Water Lines will CROSS a Zone A (areas of 100-year flood; dark shading) designated creek. NOTE: Scale changes.



KENTON COUNTY - SUBDISTRICT C
PROPOSED FUNDING - 8" TO 12" LINES

This budget expands the CDBG project budget to show additional RD funds (Martin Rd)
and the Upgrade of the lines to be financed by the NKWSD.

HUD	DLG	ACTIVITY CATEGORY	CDBG PROJECT - 8" LINES				8" Lines Martin Rd. R.D. FUNDS	12" LINES UPGRADE WD BOND ISSUE	TOTAL
			CDBG FUNDS	R.D. FUNDS	County Funds	Com. Funds & Tap-ons			
01	1)	ACQUISITION	\$0	\$0	\$0	\$0	\$0	\$0	\$0
04	2)	CLEARANCE	\$0	\$0	\$0	\$0	\$0	\$0	\$0
08	3)	RELOCATION							
	a)	owner							\$0
	b)	renter							\$0
	c)	buisnesses							\$0
	d)	excess payments							\$0
	e)	temporary relocation							\$0
		TOTAL RELOCATION	\$0	\$0	\$0	\$0	\$0	\$0	\$0
15 14A 14A 14A 14C 14I 16A 16B	4)	REHABILITATION							
	a)	code enforcement							\$0
	b)	grants							\$0
	c)	forgivable-def. loans							\$0
	d)	leveraged loans							\$0
	e)	public housing mod.							\$0
	f)	lead based/lead hazard/abate							\$0
	g)	residential-historic preservation							\$0
	h)	non-residential-historic preserv.							\$0
		TOTAL REHAB.	\$0	\$0	\$0	\$0	\$0	\$0	\$0
03F 03K 03J 03I	5)	PUBLIC FACILITIES							
	a)	parks & rec. facilities							\$0
	b)	street improvements							\$0
	c)	water lines	\$925,000	\$1,502,345	\$50,000	\$178,500	\$76,395	\$1,462,655	\$4,192,895
	d)	water treatment facilities							\$0
	e)	sewer lines							\$0
	f)	sewage treatment fac.							\$0
	g)	flood & drainage fac.							\$0
	h)	engineering design		\$191,077			\$5,500	\$105,311	\$301,888
	i)	engineering inspection		\$111,461			\$3,209	\$61,432	\$178,102
	j)	other public facilities							
	1								
	2								
	3								
		TOTAL PUBLIC FAC.	\$925,000	\$1,804,883	\$50,000	\$178,500	\$85,104	\$1,829,398	\$4,494,385
25	6)	PUBLIC SERVICES	\$0	\$0	\$0	\$0	\$0	\$0	\$0
12	7)	OTHER							
	a)	Legal Services/Bond Counsel		\$20,000				\$0	\$20,000
	b)	Interim Financing		\$120,000				\$0	\$120,000
	c)								\$0
		TOTAL OTHER	\$0	\$140,000					\$140,000
	8)	SUBTOTAL	\$925,000	\$1,944,883	\$50,000	\$178,500	\$85,104	\$1,829,398	\$4,634,385
20	9)	PLANNING	\$9,500						\$9,500
21A	10)	ADMINISTRATION	\$40,000						\$40,000
22	11)	CONTINGENCIES	\$25,500	\$185,176				\$191,614	\$402,290
	12)	TOTAL PROJECT COSTS	\$1,000,000	\$2,130,059	\$50,000	\$178,500	\$85,104	\$1,821,012	\$5,262,675

TOTAL CDBG/RD PROJECT: \$3,356,559

Kenton County/Northern Kentucky Water Service District
 Subdistrict C Water Line Extension Project

Project Cost Act. No. Activity	CDBG/RD PROJECT				PROJECT UPGRADE		Total
	CDBG (8")	RD (8")	Kenton Co. Tap-ons	Com. Funds	RD-Martin Rd.	Upgrades WD Bond Issue	
05c Waterlines:							
- Staffordsburg	\$100,000	\$223,100				\$175,360	\$498,460
- Spillman	\$90,000	\$42,905				\$0	\$132,905
- Rector	\$25,000	\$45,695				\$0	\$70,695
- Hempfling	\$160,000	\$100,720				\$0	\$260,720
- Madison Pike	\$200,000	\$420,040	\$176,500			\$624,950	\$1,421,490
- US 25/Green	\$350,000	\$669,885	\$50,000		\$76,395	\$662,345	\$1,732,230
Subtotal:	\$925,000	\$1,502,345	\$50,000	\$176,500	\$76,395	\$1,462,655	\$4,192,895
5h Engineering Design @ 7.2%		\$191,077			\$5,500	\$105,311	\$301,888
Engineering Inspection (Const. Ser. @ 4.2%)		\$111,461			\$3,209	\$61,432	\$176,102
Subtotal	\$0	\$302,538	\$0	\$0	\$8,709	\$166,743	\$477,990
07a Legal Services/Bond Counsel		\$20,000					\$20,000
07b Interim Financing		\$120,000					\$120,000
Subtotal	\$0	\$140,000	\$0	\$0	\$0	\$0	\$140,000
9 Planning	\$9,500						\$9,500
10 Administration	\$40,000						\$40,000
11 Contingencies	\$25,500	\$185,176					\$407,280
Total Project Costs:	\$1,000,000	\$2,130,059	\$50,000	\$176,500	\$85,104	\$1,821,012	\$5,262,675

Project Funding

Community Development Block Grant
 Rural Development
 CDBG/RD Portion \$2,130,059
 Martin Road Portion \$ 85,104
 Kenton County Fiscal Court
 Community Fund Raising
 Tap-on Fees (OI & Com: 222 @ \$750)
 KCWSD #1 Bond Issue

Total Project Funding:

\$1,000,000
 \$2,215,163
 \$50,000
 \$10,000
 \$166,500
 \$1,821,012
 \$5,262,675

27-Aug-97

KENTON COUNTY - SUBDISTRICT C - PROPOSED

STREET	DISTANCE (Miles)	TOTAL AVAIL. CUSTOMERS	CUSTOMER SIGN-UPS	CUST. PER/MI.	8" CONST. UPGRADE ESTIMATE	ESTIMATE	TOTAL CONST.
Ky 17 (Gleason to Co. Line)	5.70	155	155	27.19	\$796,540	\$302,365	\$1,421,490
US 25/Green Rd. (Walton to Ky 1)	8.60	147	147	17.09	\$1,069,885	\$322,585	\$1,732,230
Staffordsburg Rd. (Ky 16 to Marti)	2.40	61	61	25.42	\$323,100	\$662,345	\$498,460
Hemphling Road (First 2.1 miles)	2.10	39	39	18.57	\$260,720	\$175,360	\$260,720
Spillman Road	1.00	26	26	26.00	\$132,905		\$132,905
Rector Road (Subdist B to Ken. St)	0.50	8	8	16.00	\$70,695		\$70,695
	20.30	436	436	21.48	\$2,653,845	\$1,462,655	\$4,116,500
RD ONLY - Over-Income area							
Martin Rd. (Subdist B to Ken St.)	0.60	8	8	13.33	\$76,395		\$76,395
TOTALS	20.90	444	444	21.24	\$2,730,240	\$1,462,655	\$4,192,895

Cost Estimate:

Construction	\$4,192,895.00
Engineering @ 11.4%	\$477,990.00
Planning & Administration	\$49,500.00
Interim financing	\$120,000.00
Legal	\$20,000.00
Contingencies (10%)	\$402,290.00
	<u>\$5,262,675.00</u>

Source of Funds:

Community Development Block Grant	\$1,000,000
Tap-on fees (222 OI & Com @ \$750)	\$166,500
Community Fund Raising	\$10,000
Kenton County Cash	\$50,000
Rural Development Loan	\$2,215,163*
Upgrades (KCWSD #1 Bond Issue)	<u>\$1,821,012</u>
	<u>\$5,262,675</u>

*RD Loan on file at \$2,999,999; to be updated upon CDBG determination



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CONSULTING ENGINEERS & SURVEYORS

488 ERLANGER ROAD
ERLANGER, KENTUCKY 41018
PHONE: (606) 727-3293

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JAMES H. VIOX, III P.E.
KY. REG. NO. 6880
KY. LAND SURVEYOR NO. 787

WILLIAM R. VIOX, P.E.
KY. REG. NO. 9209
KY. LAND SURVEYOR NO. 1781

Public Facilities
Southern Kenton County Water Lines
Detailed Preliminary Cost Estimate
Sub-District C

<u>Street</u>	<u>Estimated Construction Cost</u>
1) Ky. 17 (Gleason to County Line)	\$ 796,540.00
2) Green Road	\$ 694,915.00
US 25 (Walton to Ky 14)	\$ 374,970.00
3) Staffordsburg Road [Old Decoursey] (Ky 16 to Martin Road)	\$ 323,100.00
4) Hemphling Road (First 2.1 Miles)	\$ 260,720.00
5) Spillman Road	\$ 132,905.00
6) Rector Road (Subdistrict B to Kenton Station)	\$ <u>70,695.00</u>
	\$ 2,653,845.00



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Public Facilities
Southern Kenton County Water Lines
Detailed Preliminary Cost Estimate
Sub-District "C"

Madison Pike (KY 17)	Quantity		Unit Price	Total
Gleason To County Line				
a. 8" C-900 Pipe and Fittings	23,900	LF	15.50	370,450.00
b. 8" X 8" X 6" Ductile Iron Anch. Tees & Blocks	48	EA	230.00	11,040.00
c. 8" X 8" X 8" Ductile Iron Tees & Blocks	8	EA	250.00	2,000.00
d. 8" C.I. Pipe Plugs	10	EA	200.00	2,000.00
e. 8" C.I. Resilient Seated Gate Valves & Boxes	40	EA	525.00	21,000.00
f. F.H. Assembly, Incl. 6" D.I. Resilient Seated Gate Valve & Valve Box, 6" D.I. Anchor Pipe, F.H. Blocking & Necessary Extensions	36	EA	1425.00	51,300.00
g. Street & Drive Restoration	670	SY	25.00	16,750.00
h. Service Connection w/Meter	155	EA	750.00	116,250.00
i. Controlled Density Fill	450	CY	45.00	20,250.00
j. 8" DIP Class 52 Pipe & Fittings W/ Polywrap	6000	LF	18.00	108,000.00
k. 8" DI Resilient Seated Gate Valves & Boxes (250 PSI)	4	EA	725.00	2,900.00
l. F.H. Assembly, Incl. 6" D.I. Resilient Seated Gate Valve & Valve Box, 6" D.I. Anchor Pipe, F.H., Blocking & Necessary Extensions (250 PSI)	10	EA	1,975.00	19,750.00
m. Concrete Encasement	200	LF	50.00	10,000.00

	Quantity		Unit Price	Total
n. Restoration General	29,900	LF	1.50	<u>44,850.00</u>
	Sub-Total		\$	796,540.00

Rev. 6/23/95
Rev. 7/7/95
Rev. 4/4/96
Rev. 4/10/96
Rev. 8/4/97



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Public Facilities
Southern Kenton County Water Lines
Detailed Preliminary Cost Estimate
Sub-District "C"

WILLIAM R. VIOX, P.E.
KY. REG. NO. 9209
KY. LAND SURVEYOR NO. 1781

	Quantity		Unit Price	Total
Green Road				
a. 8" C-900 Pipe and Fittings	26,300	LF	15.50	407,650.00
b. 8" X 8" X 6" Ductile Iron Anch. Tees & Blocks	48	EA	230.00	11,040.00
c. 8" X 8" X 8" Ductile Iron Tees & Blocks	4	EA	250.00	1,000.00
d. 8" C.I. Pipe Plugs	4	EA	200.00	800.00
e. 8" C.I. Resilient Seated Gate Valves & Boxes	30	EA	525.00	15,750.00
f. F.H. Assembly, Incl. 6" D.I. Resilient Seated Gate Valve & Valve Box, 6" D.I. Anchor Pipe, F.H. Blocking & Necessary Extensions	42	EA	1425.00	59,850.00
g. Street & Drive Restoration	400	SY	25.00	10,000.00
h. Service Connection w/Meter	75	EA	750.00	56,250.00
i. 8" DIP Class 52 Pipe & Fittings W/ Polywrap	3,800	LF	18.00	68,400.00
j. 8" DI Resilient Seated Gate Valves & Boxes (250 PSI)	3	EA	725.00	2,175.00
k. F.H. Assembly, Incl. 6" D.I. Resilient Seated Gate Valve & Valve Box, 6" D.I. Anchor Pipe, F.H., Blocking & Necessary Extensions (250 PSI)	6	EA	1,975.00	11,850.00
l. Concrete Encasement	100	LF	50.00	5,000.00
m. Restoration General	30,100	LF	1.50	45,150.00
	Sub-Total		\$	694,915.00

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Rev. 4/4/96
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Rev. 8/4/97



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ERLANGER, KENTUCKY 41018
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Public Facilities
Southern Kenton County Water Lines
Detailed Preliminary Cost Estimate
Sub-District "C"

WILLIAM R. VIOX, P.E.
KY. REG. NO. 9209
KY. LAND SURVEYOR NO. 1781

	Quantity		Unit Price	Total
U.S. 25 (Walton)				
To Ky. 14)				
a. 8" C-900 Pipe and Fittings	15,000	LF	15.50	232,500.00
b. 8" X 8" X 6" Ductile Iron Anch. Tees & Blocks	24	EA	230.00	5,520.00
c. 8" X 8" X 8" Ductile Iron Tees & Blocks	3	EA	250.00	750.00
d. 8" C.I. Pipe Plugs	3	EA	200.00	600.00
e. 8" C.I. Resilient Seated Gate Valves & Boxes	16	EA	525.00	8,400.00
f. F.H. Assembly, Incl. 6" D.I. Resilient Seated Gate Valve & Valve Box, 6" D.I. Anchor Pipe, F.H. Blocking & Necessary Extensions	24	EA	1425.00	34,200.00
g. Street & Drive Restoration	300	SY	25.00	7,500.00
h. Service Connection w/Meter	72	EA	750.00	54,000.00
i. Control Density Fill	200	LF	45.00	9,000.00
j. Restoration General	15,000	LF	1.50	<u>22,500.00</u>
	Sub-Total		\$	374,970.00

Rev. 7/7/95
Rev. 4/4/96
Rev. 4/10/96
Rev. 8/4/97



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ERLANGER, KENTUCKY 41018
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KY. REG. NO. 8208
KY. LAND SURVEYOR NO. 1781

Public Facilities
Southern Kenton County Water Lines
Detailed Preliminary Cost Estimate
Sub-District "C"

	Quantity		Unit Price	Total
Staffordsburg Road (Old Decoursey) Ky. 16 To Martin Road				
a. 8" C-900 Pipe and Fittings	10,000	LF	15.50	155,000.00
b. 8" X 8" X 6" Ductile Iron Anch. Tees & Blocks	20	EA	230.00	4,600.00
c. 8" X 8" X 8" Ductile Iron Tees & Blocks	2	EA	250.00	500.00
d. 8" C.I. Pipe Plugs	2	EA	200.00	400.00
e. 8" C.I. Resilient Seated Gate Valves & Boxes	8	EA	525.00	4,200.00
f. F.H. Assembly, Incl. 6" D.I. Resilient Seated Gate Valve & Valve Box, 6" D.I. Anchor Pipe, F.H. Blocking & Necessary Extensions	16	EA	1425.00	22,800.00
g. Street & Drive Restoration	300	SY	25.00	7,500.00
h. Service Connection w/Meter	61	EA	750.00	45,750.00
i. 8" DIP Class 52 Pipe & Fittings W/ Polywrap	2,900	LF	18.00	52,200.00
j. 8" DI Resilient Seated Gate Valves & Boxes (250 PSI)	4	EA	725.00	2,900.00
k. F.H. Assembly, Incl. 6" D.I. Resilient Seated Gate Valve & Valve Box, 6" D.I. Anchor Pipe, F.H., Blocking & Necessary Extensions (250 PSI)	4	EA	1,975.00	7,900.00

	Quantity		Unit Price	Total
1. Restoration General	12,900	LF	1.50	<u>19,350.00</u>
	Sub-Total		\$	323,100.00

Rev. 4/10/96
Rev. 8/4/97



VIOX & VIOX, INC.

CONSULTING ENGINEERS & SURVEYORS

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WILLIAM R. VIOX, P.E.
KY. REG. NO. 9209
KY. LAND SURVEYOR NO. 1781

Public Facilities
Southern Kenton County Water Lines
Detailed Preliminary Cost Estimate
Sub-District "C"

	Quantity		Unit Price	Total
Hemphling Road				
(First 2.1 Miles)				
a. 8" C-900 Pipe and Fittings	11,090	LF	15.50	171,895.00
b. 8" X 8" X 6" Ductile Iron Anch. Tees & Blocks	18	EA	230.00	4,140.00
c. 8" X 8" X 8" Ductile Iron Tees & Blocks	1	EA	250.00	250.00
d. 8" C.I. Pipe Plugs	1	EA	150.00	150.00
e. 8" C.I. Resilient Seated Gate Valves & Boxes	10	EA	525.00	5,250.00
f. F.H. Assembly, Incl. 6" D.I. Resilient Seated Gate Valve & Valve Box, 6" D.I. Anchor Pipe, F.H. Blocking & Necessary Extensions	18	EA	1425.00	25,650.00
g. Street & Drive Restoration	300	SY	25.00	7,500.00
h. Service Connection w/Meter	39	EA	750.00	29,250.00
i. Restoration General	11,090	LF	1.50	<u>16,635.00</u>
	Sub-Total		\$	260,720.00

4/4/96
Rev. 4/10/96
Rev. 8/4/97



VIOX & VIOX, INC.
CONSULTING ENGINEERS & SURVEYORS

466 ERLANGER ROAD
ERLANGER, KENTUCKY 41018
PHONE: (606) 727-3293

N.K.W.S.D.
EXHIBIT-C1
PAGE 28 of 51

JAMES H. VIOX, III P.E.
KY. REG. NO. 6880
KY. LAND SURVEYOR NO. 787

WILLIAM R. VIOX, P.E.
KY. REG. NO. 9209
KY. LAND SURVEYOR NO. 1781

Public Facilities
Southern Kenton County Water Lines
Detailed Preliminary Cost Estimate
Sub-District "C"

	Quantity		Unit Price	Total
Spillman Road				
a. 8" C-900 Pipe and Fittings	5,280	LF	15.50	81,840.00
b. 8" X 8" X 6" Ductile Iron Anch. Tees & Blocks	9	EA	230.00	2,070.00
c. 8" X 8" X 8" Ductile Iron Tees & Blocks	1	EA	250.00	250.00
d. 8" C.I. Pipe Plugs	1	EA	150.00	150.00
e. 8" C.I. Resilient Seated Gate Valves & Boxes	4	EA	525.00	2,100.00
f. F.H. Assembly, Incl. 6" D.I. Resilient Seated Gate Valve & Valve Box, 6" D.I. Anchor Pipe, F.H. Blocking & Necessary Extensions	9	EA	1425.00	12,825.00
g. Street & Drive Restoration	250	SY	25.00	6,250.00
h. Service Connection w/Meter	26	EA	750.00	19,500.00
i. Restoration General	5,280	LF	1.50	<u>7,920.00</u>
	Sub-Total		\$	132,905.00

Rev. 7/7/95
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CONSULTING ENGINEERS & SURVEYORS

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ERLANGER, KENTUCKY 41018
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N.K.W.S.D.
EXHIBIT-C1
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Public Facilities
Southern Kenton County Water Lines
Detailed Preliminary Cost Estimate
Sub-District "C"

	Quantity		Unit Price	Total
Rector Road (Subdistrict B To Kenton Station)				
a. 8" DIP Class 52 Pipe & Fittings W/ Polywrap	2,600	LF	18.00	46,800.00
b. 8" X 8" X 6" Ductile Iron Anch. Tees & Blocks	4	EA	230.00	920.00
c. 8" X 8" X 8" Ductile Iron Tees & Blocks	1	EA	250.00	250.00
d. 8" C.I. Pipe Plugs	1	EA	150.00	150.00
e. 8" D.I. Resilient Seated Gate Valves & Boxes (250 PSI)	4	EA	725.00	2,900.00
f. F.H. Assembly, Incl. 6" D.I. Resilient Seated Gate Valve & Valve Box, 6" D.I. Anchor Pipe, F.H. Blocking & Necessary Extensions (250 PSI)	4	EA	1975.00	7,900.00
g. Street & Drive Restoration	75	SY	25.00	1,875.00
h. Service Connection w/Meter	8	EA	750.00	6,000.00
i. Restoration General	2,600	LF	1.50	<u>3,900.00</u>
	Sub-Total		\$	70,695.00

Rev. 4/4/96
Rev. 4/10/96
Rev. 8/4/97

THE FOLLOWING PAGES ARE THE ENGINEER'S ESTIMATES FOR

1.)	MARTIN ROAD (RD Only)	\$ 85,104
2.)	COST OF THE UPGRADES	
	Madison Pike (KY 17)	
	16" Gleason Rd. To Ky.14	\$302,365
	12" Ky.14 to County line	\$322,585
	Green Road (to 12")	\$433,030
	U.S.25 (to 12")	\$229,315
	Staffordsburg Road (to 12")	\$175,360



VIOX & VIOX, INC.

CONSULTING ENGINEERS & SURVEYORS

466 ERLANGER ROAD
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KY. REG. NO. 6880
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KY. REG. NO. 9209
KY. LAND SURVEYOR NO. 1781

Public Facilities
Southern Kenton County Water Lines
Detailed Preliminary Cost Estimate
Sub-District "C"

	Quantity		Unit Price	Total
Martin Road (Subdistrict B To Staffordsburg Road)				
a. 8" DIP Class 52 Pipe & Fittings W/ Polywrap	2,450	LF	18.00	44,100.00
b. 8" X 8" X 6" Ductile Iron Anch. Tees & Blocks	4	EA	230.00	920.00
c. 8" X 8" X 8" Ductile Iron Tees & Blocks	2	EA	250.00	500.00
d. 8" C.I. Pipe Plugs	2	EA	200.00	400.00
e. 8" D.I. Resilient Seated Gate Valves & Boxes (250 PSI)	4	EA	725.00	2,900.00
f. F.H. Assembly, Incl. 6" D.I. Resilient Seated Gate Valve & Valve Box, 6" D.I. Anchor Pipe, F.H. Blocking & Necessary Extensions (250 PSI)	4	EA	1975.00	7,900.00
g. Street & Drive Restoration	100	SY	25.00	2,500.00
h. Service Connection w/Meter	8	EA	750.00	6,000.00
i. Concrete Encasement	150	LF	50.00	7,500.00
j. Restoration General	2,450	LF	1.50	<u>3,675.00</u>
	Sub-Total		\$	76,395.00

Rev. 4/4/96
Rev. 4/10/96
Rev. 8/4/97



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Southern Kenton County Water Lines
Detailed Preliminary Cost Estimate
Sub-District "C"

<u>Street</u>	<u>Estimated Construction Cost</u>
1a) Ky. 17 (Cost to upgrade to 16" Gleason to Ky. 14)	\$ 302,365.00
1b) Ky 17 (Cost to upgrade to 12" Ky 14 to County Line	\$ 322,585.00
2) Green Road (Cost to upgrade to 12")	\$ 433,030.00
3) US 25 (Cost to upgrade to 12")	\$ 229,315.00
4) Staffordsburg Rd. (Cost to upgrade to 12")	\$ <u>175,360.00</u>
Total	\$ 1,462,655.00

Rev. 6/23/95
Rev. 4/4/96



VIOX & VIOX, P.S.C.

CONSULTING ENGINEERS & SURVEYORS
486 ERLANGER ROAD
ERLANGER, KENTUCKY 41018
PHONE: (606) 727 - 3293

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KY. REG. NO. 6880
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Public Facilities
Southern Kenton County Water Lines
Detailed Preliminary Cost Estimate
Sub-District "C"

	Quantity		Unit Price	Total
16" Upgrade				
1a) Gleason To				
Ky. 14				
a. 16" Ductile-Iron				
Pipe Cl. 52 &				
Fittings W/	6,000	LF	27.00	162,000.00
Polywrap	2,700	LF	34.50	93,150.00
b. 16" X 16" X 6"				
Ductile Iron Anch.				
Tees & Blocks	17	EA	620.00	10,540.00
c. 16" X 16" X 8"				
Ductile Iron				
Tees & Blocks	2	EA	700.00	1,400.00
d. 16" C.I. Pipe Plugs	1	EA	450.00	450.00
e. 16" Ductile-Iron				
Butterfly Valves				
& Boxes	11	EA	1975.00	21,725.00
f. 16" D.I. Butterfly				
Valves & Boxes				
(250 PSI)	3	EA	3275.00	<u>13,100.00</u>
	Sub-Total		\$	302,365.00

Rev. 6/23/95
Rev. 7/7/95



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Public Facilities
Southern Kenton County Water Lines
Detailed Preliminary Cost Estimate
Sub-District "C"

	Quantity		Unit Price	Total
2b) Green Road				
(Upgrade To 12")				
a. 12" Ductile-Iron				
Pipe Cl. 52 &				
Fittings W/	26,300	LF	14.50	381,350.00
Polywrap	3,800	LF	7.00	26,600.00
b. 12" X 12" X 6"				
Ductile Iron Anch.				
Tees & Blocks	64	EA	170.00	10,880.00
c. 12" X 12" X 8"				
Ductile Iron				
Tees & Blocks	4	EA	175.00	700.00
d. 12" C.I. Pipe Plugs	2	EA	100.00	200.00
e. 12" C.I. Resilient				
Seated Gate Valves				
& Boxes	25	EA	475.00	11,875.00
f. 12" D.I. Resilient				
Seated Gate Valves				
& Boxes (250 PSI)	3	EA	475.00	<u>1,425.00</u>
	Sub-Total		\$	433,030.00



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CONSULTING ENGINEERS & SURVEYORS
466 ERLANGER ROAD
ERLANGER, KENTUCKY 41018
PHONE: (606) 787 - 3293

JAMES H. VIOX, III, P.E.
KY. REG. NO. 6880
KY. LAND SURVEYOR NO. 797

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Public Facilities
Southern Kenton County Water Lines
Detailed Preliminary Cost Estimate
Sub-District "C"

	Quantity		Unit Price	Total
3b) Upgrade To 12" U.S. 25 (Walton To Ky. 14)				
a. 12" Ductile-Iron Pipe Cl. 52 & Fittings W/ Polywrap	15,000	LF	14.50	217,500.00
b. 12" X 12" X 6" Ductile Iron Anch. Tees & Blocks	32	EA	170.00	5,440.00
c. 12" X 12" X 8" Ductile Iron Tees & Blocks	3	EA	175.00	525.00
d. 12" C.I. Pipe Plugs	2	EA	75.00	150.00
e. 12" C.I. Resilient Seated Gate Valves & Boxes	12	EA	475.00	5,700.00
	Sub-Total		\$	229,315.00



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CONSULTING ENGINEERS & SURVEYORS
466 ERLANGER ROAD
ERLANGER, KENTUCKY 41018
PHONE: (606) 727 - 3283

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KY. REG. NO. 6880
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Public Facilities
Southern Kenton County Water Lines
Detailed Preliminary Cost Estimate
Sub-District "C"

	Quantity		Unit Price	Total
4b) Upgrade To 12" Staffordsburg Rd				
a. 12" Ductile-Iron Pipe Cl. 52 & Fittings W/ Polywrap	2,900	LF	7.00	20,300.00
	10,000	LF	14.50	145,000.00
b. 12" X 12" X 6" Ductile Iron Anch. Tees & Blocks	28	EA	170.00	4,760.00
c. 12" X 12" X 8" Ductile Iron Tees & Blocks	2	EA	175.00	350.00
d. 12" C.I. Pipe Plugs	2	EA	100.00	200.00
e. 12" C.I. Resilient Seated Gate Valves & Boxes	6	EA	475.00	2,850.00
f. 12" D.I. Resilient Seated Gate Valves Boxes (250 PSI)	4	EA	475.00	1,900.00
	Sub-Total		\$	175,360.00

IV. PROJECT OVERVIEW

PROJECT NEED

1. When was plant and/or system which serves the proposed project originally constructed? Fort Thomas - 1936 and Taylor Mill - 1954 (plants are owned by Northern Kentucky Water Service District)

<u>List Major Improvements, if any</u>	<u>Year Completed</u>	<u>Funding Used</u>	<u>Approximate Cost</u>
<u>Ft. Thomas WTP Modifications</u>	<u>1981 & 1988</u>	<u>Bond Issue</u>	<u>\$ 9,000,000</u>
<u>Taylor Mill WTP Modifications</u>	<u>1964 & 1988</u>	<u>Bond Issue</u>	<u>\$ 6,000,000</u>
			<u>\$</u>

2. If water is being hauling, provide an estimate of (does not apply to bottled water):

- a. Number of households affected 436
 b. Cost per load \$ 40
 c. Number of gallons per load 2,000 avg.
 d. Number of loads used per month 2 avg.
 e. Cost per 4,000 gallons \$ 80

3. List areas within proposed project to be served (i.e. names of roads, communities, neighborhoods) as indicated on maps (Attach additional page if necessary, using same format).
Use corresponding area letters as needed for questions 4, 5, 6, 7, 8, and effectiveness question 5.

<u>Area</u>	<u>Road, Community or Neighborhood</u>	<u>Area</u>	<u>Road, Community or Neighborhood</u>
<u>a.</u>	<u>Staffordsburg Road</u>	<u>g.</u>	
<u>b.</u>	<u>Spillman Road</u>	<u>h.</u>	
<u>c.</u>	<u>Rector Road</u>	<u>i.</u>	
<u>d.</u>	<u>Hempfling Road</u>	<u>j.</u>	
<u>e.</u>	<u>US 25/Green Road</u>	<u>k.</u>	
<u>f.</u>	<u>Madison Pike (KY 17)</u>	<u>l.</u>	

4. List and briefly discuss problems or sickness and identify areas (Include reference to sources of documentation as listed under methodology) (Attach additional page if necessary, using same format):

<u>Area(s)</u>	<u>Type of Sickness or Problems *</u>	<u># of Cases</u>	<u>Documentation</u>
<u>a</u>	<u>stomach problems</u>	<u>3</u>	<u>resident survey</u>
<u>b</u>	<u>stomach problems</u>	<u>2</u>	<u>resident survey</u>
<u>c</u>	<u>stomach problems</u>	<u>1</u>	<u>resident survey</u>
<u>d</u>	<u>stomach problems</u>	<u>5</u>	<u>resident survey</u>
<u>e</u>	<u>stomach problems</u>	<u>19</u>	<u>resident survey</u>
<u>f</u>	<u>stomach problems</u>	<u>12</u>	<u>resident survey</u>
		<u>42 Total</u>	

* Resident Health Survey undertaken in June, 1996 & May -July, 1997 by Northern Ky. Water Service Dist.

IV. PROJECT OVERVIEW
(continued)

A. PROJECT NEED (continued)

5. Briefly describe areas with pressure problems and reference documentation as listed under methodology. (Examples: dates hydraulic studies were conducted and conclusions, frequency and duration of pressure problems, actions taken to date to correct problems, public comments/complaints.)

The area to be served by this project does not currently have public water service available; pressure problems are not applicable. The project has been sized appropriately to adequately serve the area and pressure. The NKWSD area is a very difficult area to service as pressure fluctuates as a result of the changes in topography from 450 ft elevation at the Ohio River to 500 ft. elevations in the valley and 900+ elevations on the ridges; a difference of 450 ft. which generates a pressure change of over 250 pounds. The pressure is the reason the NKWSD uses ductile iron in certain areas instead of PVC; the standard 150 class PVC rating is exceeded. Good engineering practices do not allow use of PVC with pressures of over 150 pounds.

6. Briefly discuss areas with I&I problems and reference documentation as listed under methodology. (Examples: dates studies were conducted and conclusions, actions taken to date to correct problems, flow data.)

Not Applicable

7. For water samples/tests, provide the following information and briefly discuss on the following page the level of contamination of water supply for each area (Attach additional pages as necessary using same format) :

Area	Type of Test Taken Within Last 3 Years	# of Tests Taken	# of Samples Contaminated	# of Well Tests	# of Cistern Tests	# of Spring Tests	# of Other Tests
a.	Coliform Plate	5	2	0	5	0	0
b.	Coliform Plate	5	5 (2*)	0	5	0	0
c.	Coliform Plate	2	2 (2*)	0	2	0	0
d.	Coliform Plate	13	10 (4*)	0	13	0	0
e.	Coliform Plate	38	27 (15*)	0	38	0	0
f.	Coliform Plate	23	19 (8*)	0	23	0	0
g.							
h.							
i.							
j.							
k.							
l.							
Total		86	65 (31*)	0	86	0	0

* number of samples testing positive for E.Coli

**IV. PROJECT OVERVIEW
(continued)**

PROJECT NEED (continued)

7. (continued) Briefly discuss level of contamination of water supply (Include type of contamination, etc.) for tests indicated above:

Random water tests were conducted on project area cisterns in July 1996 and July & August 1997, on behalf of the Northern Kentucky Water Service District. The total coliform membrane filtration tests revealed that 65 of the 86 tests (or 75.6%) were positive for total coliform which is an indicator that conditions are acceptable for pathogenic organisms to be present. Pathogenic organisms are "disease causing" which are capable of causing hepatitis, dysentery, diarrhea, and internal parasites. Of the 86 tests, 74 were tested for e.Coli and 31 or 42.9% of the 74 tested positive, indicating infiltration of fecal matter into these cisterns. Only 6 of the total 86 tests taken were determined to be "drinkable" water. The samples were collected randomly by staff of Will Linder and Associates and the Northern Kentucky Water Service District and tested at the lab of the Northern Kentucky Water Service District. The Northern Kentucky Water Service District is one of two State certified labs in the area; they maintain a State Bacteriological Analysis Certification (#00003).

Household surveys revealed that 42 of 348 (12%) of the households surveyed reported stomach problems over the past fourteen months, which could be directly linked to the same type of bacteria found in the cisterns. This number may be low as the majority of households drink bottled water.

8. Briefly discuss level of contamination in regard to sewage problems by area (Include source, type of problem, test results or studies conducted, etc.) for tests shown above:

According to conversations with the Northern Kentucky District Health Department (NKDHD), groundwater wells are not used by most households for fear of contamination from poorly operating/failing septic tanks. This is confirmed with only 4 households with wells reported by the surveys conducted on 348 households. However, improperly sealed, improperly maintained cisterns, and cisterns that have cracks can allow contaminated groundwater to flow into the cisterns as evidenced by the 31 positive e.Coli tests of the total 86 water samples (36%) taken in the past 14 months. The Northern Ky. District Health Dept. has stated a standard 50% contamination in cistern tests in their service area. There are no public sewers in this area and families must rely on septic systems; the only way to ensure safe, clean drinking water is to install public water lines or continue to utilize bottled water.

9. Identify current sanctions and attach copy(ies): *NOT APPLICABLE*

	<u>Date Imposed</u>	<u>Fines Levied to Date</u>	<u>Final Compliance Date</u>
Administrative Order	n/a		
Agreed Order	n/a	\$	
Tap-On Ban	n/a	\$	
Line Extension Ban	n/a	\$	
Others (Explain)		\$	
		\$	

A. PROJECT NEED (continued)

10. Briefly summarize other needs in the space provided. **Additional pages are not allowed.**

Description of Need:

The residents in the proposed area rely on cisterns for their water supply. The residents' cisterns are most often tied into the home guttering, but must also be filled by water hauled during dry weather or if the roof surface does not provide enough water to meet their demand. As evidenced by the household surveys where 96% of the households reported using cisterns, 3% used other sources such as bottled water, and only 1% used wells, groundwater is not normally used due to the probability of contamination from septic systems. The area soil is in the Eden and Cynthia soil associations, both of which have septic tank absorption fields classified as "severe" with little or no percolation; it allows it to perc, but does not allow the liquid to leach well. Groundwater in the area also has poor quality due to the high sulfur content, and there is insufficient quantity to meet household needs.

Water sampling on cisterns in Kenton County has been for coliform bacteria only. The results of sampling evidenced by the Northern Kentucky District Health Department during the past several years has yielded a standard of 50% contamination indicating the presence of coliform bacteria. In the 86 water samples taken by staff of Will Linder and Associates and the Northern Kentucky Water Service District over the past 14 months, 75.6% (65 of 86) showed contamination with 36% (31 of 86) tested positive for e.Coli bacteria. The tests were done by the Northern Kentucky Water Service District water lab, one of two State certified labs in the Northern Kentucky area; the other is Cardinal Lab. The tests were total coliform membrane filtration tests; an indicator test that conditions are right for pathogenic organisms to be present. Pathogenic organisms are disease causing organisms. With the testing done on the cistern water in the project area, the quality of the water in the cisterns is certainly doubtful. The e.Coli bacteria show evidence of contamination by sewage.

Another concern for these families is the quantity; having enough water to drink, cook, bathe, do laundry, and flushing toilets. Through discussions with the Northern Kentucky Water Service District, there are only 2 major haulers in the area (hauling 750,000 to 100,000 per day) with 3 others on a small scale; only 2 making "emergency" deliveries on the weekends. The cost of a load of water averages \$40 each load and contains an average of 2,000 gallons. Most families required an average of two loads each month per information from the haulers. In these instances, water bills are \$80 per month for water which, after a short time period, can test positive for coliform bacteria as evidenced by the water samples listed above.

Inadequate fire protection in the area results in an increased cost for homeowners insurance. The insurance premium for a \$50,000 brick home in the project area would be \$367/year; with adequate water service and installation of fire hydrants, the fire department class would upgrade and the insurance premium would decrease to approximately \$189 (50% reduction). This project would provide a much needed reduction in homeowners insurance costs to the LMI households in the area which alone could offset as much as 60% of the \$24.90 surcharge ($\$367 - \$189 = \178 savings $\$178/12$ months = \$14.83 which is 60% of the \$24.90 surcharge).

Also a factor in the need of the project is the growth the area is anticipating in the coming years. The Kentucky State Data Center states that from 1990 to 1995, the state population increased by 173,000 persons or 5%. During the entire previous decade, Kentucky grew demographically by less than 1%. Much of the growth has been located in the peripheral counties of the Louisville, Lexington, and Northern Kentucky metropolitan areas. These suburban areas attracted newcomers



OFFICE OF THE GOVERNOR
DEPARTMENT FOR LOCAL GOVERNMENT
FRANKFORT, KENTUCKY 40601-8204
September 4, 1997

PAUL E. PATTON
GOVERNOR

*State
Will
vonder
John*

BOB ARNOLD
COMMISSIONER

Mr. Will Linder
Will Linder & Associates
218 Swiss Hills
Berea, Kentucky 40403

RE: Kenton County Water Expansion Project, Subdistrict C
CFDA # 14.228
SAI #KY960715-0792

Dear Mr. Linder:

The Kentucky State Clearinghouse, which has been officially designated as the Commonwealth's Single Point of Contact (SPOC) pursuant to Presidential Executive Order 12372, is in receipt of your letter dated August 26, 1997 regarding an update for the above-referenced proposal. The State Clearinghouse has contacted the appropriate state agencies and determined the previous comments remain valid.

Should you need any further clarification, please feel free to contact me at 502-573-2382.

Sincerely,

A handwritten signature in cursive script that reads "Ronald W. Cook".

Ronald W. Cook
Kentucky State Clearinghouse

Attachment

cc: Scott Kimmich



Working
John P.

PAUL E. PATTON
GOVERNOR

OFFICE OF THE GOVERNOR
DEPARTMENT OF LOCAL GOVERNMENT
FRANKFORT, KENTUCKY 40601-8204

BOB ARNOLD
COMMISSIONER

September 4, 1996

Mr. Will Linder
Will Linder & Associates
218 Swiss Hills
Berea, Kentucky 40403

RE: Kenton County Water Expansion Project, Subdistrict C
CFDA# 14.228
SAI#KY960715-0792

Dear Mr. Linder:

The Kentucky State Clearinghouse, which has been officially designated as the Commonwealth's Single Point of Contact (SPOC) pursuant to Presidential Executive Order 12372, has completed its evaluation of the above referenced proposal. The clearinghouse review of this proposal indicates there are no identifiable conflicts with any state or local plan, goal, or objective. Therefore, the State Clearinghouse recommends this project be approved for assistance by the cognizant federal agency.

Although the primary function of the State Single Point of Contact is to coordinate the state and local evaluation of your proposal, the Kentucky State Clearinghouse also utilizes this process to apprise the applicant of statutory and regulatory requirements or other types of information which could prove to be useful in the event the project is approved for assistance. Information of this nature, if any, concerning this particular proposal will be attached to this correspondence.

You should now continue with the application process prescribed by the appropriate funding agency. This process may include a detailed review by state agencies that have authority over specific types of projects.

This letter signifies only that the project has been processed through the State Single Point of Contact. It is neither a commitment of funds from this agency or any other state or federal agency.

September 4, 1996
Page two

The results of this review are valid for one year from the date of this letter. Continuation or renewal applications must be submitted to the State Clearinghouse annually. An application not submitted to the funding agency, or not approved within one year after completion of this review, must be re-submitted to receive a valid intergovernmental review.

If you have any questions regarding this letter, please feel free to contact my office at 502-573-2382.

Sincerely,



Ronald W. Cook, Manager
Kentucky State Clearinghouse

Attachments

cc: Northern Kentucky ADD
Ramona Newman

The Kentucky Heritage Council and State Historic Preservation Officer has made the following comments pertaining to State Application Identifier Number KY960715-0792

The project will have no effect on any property listed in or eligible for listing in the National Register of Historic Places. Further, an archaeological survey will not be necessary. Therefore, we have no objection to the project.

The Transportation Cabinet, Division of Design has made the following advisory comments pertaining to State Application Identifier Number KY960715-0792

The Kentucky Department of Highways is responsible for controlling both public and private usage of right-of-way of the State road system. Any firm, individual, or governmental agency desiring access to a State road or desiring to perform any type of work on State right-of-way must obtain a permit from the Department. A contractor performing the work must have in his possession at all times a copy of the permit, authorization letter, and detailed drawings of work to be done.

The Department encourages the use of private property for placement of utility facilities where possible and practical; but we realize that in some instances highway rights-of-way are the only reasonable places to locate the proposed utilities. In these cases, we expect the conscientious efforts of both the applicant and the contractor to minimize adverse effects on the roadway and on the traveling public due to construction of the applicant's project.

This proposal may affect State maintained road(s). Any proposed access or encroachment should be coordinated at the earliest possible stage with:

J. E. Kearnes, Chief District Engineer
Kentucky Department of Highways
PO Box 17130
Buttermilk & I-75
Covington, Kentucky 41017
Telephone: 606-341-2700

The Kentucky Natural Resources and Environmental Protection Cabinet, Division of Water has made the following comments pertaining to State Application Identifier Number KY960715-0792

PRIOR APPROVAL

The proposed project is subject to Division of Water jurisdiction because the following are involved:

- Water distribution lines and appurtenances.
- Floodplain construction including stream obstructions and crossings.

Prior approval must be obtained from the Division of Water before construction can begin on the above matters. The applicant must cite this State Application Identifier (SAI) when submitting plans and specifications to the Division.

FLOODPLAIN CONSTRUCTION

From the application data, the Division of Water ascertains that the sites of the proposed project are located in floodplain areas. Therefore, application must be made to the Division for a floodplain construction permit. Permission, or exemption, depends upon design and exact site.

The Kentucky Natural Resources & Environmental Protection Cabinet, Division of Waste Management, has made the following advisory comments pertaining to State Application Identifier # 960715 - 0792

Kenton County must be implementing their solid waste management plan in compliance with the approved implementation schedule.

The Human Resource Cabinet has made the following comments pertaining to State Application Identifier Number KY960715-0792

Applicant needs to coordinate project with the Kenton County Health Department environmental programs. Historically, extension of public water into areas served by wells, springs, and cisterns has resulted in widespread failure of existing private sewage systems and creation of public health hazards.

Consideration needs to be given to attend to sewage disposal problems as a part of the waterline service project. Unlimited water availability and use causes existing inadequate sewage disposal systems to hydraulically overload and create health hazards for surfacing sewage.

JAMES E. BICKFORD
SECRETARY



N.K.W.S.D.
EXHIBIT-C1
PAGE 49 of 51
PAUL E. PATTON
GOVERNOR

COMMONWEALTH OF KENTUCKY
NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
FRANKFORT OFFICE PARK
14 REILLY RD
FRANKFORT KY 40601

August 19, 1997

Richard Harrison, P.E., Director
Engineering and Distribution
Northern Kentucky Water Service District
3049 Dixie Highway
Ft. Mitchell, Kentucky 41017

RE: PWSID #0590220
CDBG Meeting with
Drinking Water Branch

Dear Mr. Harrison:

The Department of Local Government's Community Development Block Grant requirement for applicants to meet with the Division of Water prior to submittal of applications was met June 1996 for the Northern Kentucky Water Service Area's proposed project to extend water lines in Kenton County.

The project is a resubmission grant application which has not been revised and proposes to serve 436 new customers and extend approximately 17.8 miles of water lines on Staffordsburg, Spillman, Rector, Hempfling, US 25/Green, and Madison Pike Roads.

The Division of Water, Drinking Water Branch has no objections to the proposed project. As mentioned during the meeting, hydraulic analysis will be required when plans and specifications are submitted to our office for approval. If you have any questions please contact Donna Marlin at 502/564-2225 extension 541.

Sincerely,

A handwritten signature in cursive script, appearing to read "Vicki L. Ray".

Vicki L. Ray, Manager
Drinking Water Branch
Division of Water

VLR:DSM

C: Will Linder and Associates
Public Service Commission
Ramona Newman, DLG
Drinking Water Files





COMMONWEALTH OF KENTUCKY
NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
FRANKFORT OFFICE PARK
14 REILLY RD
FRANKFORT KY 40601 .

June 28, 1996

Richard Harrison, P.E., Director
Engineering and Distribution
Kenton County Water District #1
P.O. Box 17010
Covington, Kentucky 41017

RE: PWSID #0590220
CDBG Meeting with
Drinking Water Branch

Dear Mr. Harrison:

The Department of Local Government's Community Development Block Grant requirement for applicants to meet with the Division of Water prior to submittal of applications has been met for Kenton County Water District #1's (KCWD#1) proposed project to extend water lines in Kenton County. A list of those in attendance is enclosed.

The project proposes to serve 454 new customers and extend approximately 20.9 miles of eight inch water lines. KCWD#1 may decide to increase the line size for 1.7 miles to sixteen inch and for fifteen miles to twelve inch at their own expense. Increased line sizes may result if it is determine that potential development in the area would require more capacity than an eight inch line could provide. There is existing water treatment plant and storage capacity available to serve the project.

The Division of Water, Drinking Water Branch has no objection to the proposed project. As mentioned during the meeting, hydraulic analysis will be required when plans and specifications are submitted to our office for approval.



CDBG/Kenton County Water District #1
June 28, 1996
Page 2 of 2

If you have any questions please contact Donald Moccia at
502/564-2225 extension 635.

Sincerely,



Vicki L. Ray, Manager
Drinking Water Branch
Division of Water

VLR:DTM

Enclosure

C: v Will Linder, Will Linder & Associates
Public Service Commission
Ramona Newman, DLG
Drinking Water Files.



COMMONWEALTH OF KENTUCKY
PUBLIC SERVICE COMMISSION
730 SCHENKEL LANE
POST OFFICE BOX 615
FRANKFORT, KENTUCKY 40602
www.psc.state.ky.us
(502) 564-3940
Fax (502) 564-3460

Ronald B. McCloud, Secretary
Public Protection and
Regulation Cabinet

Helen Helton
Executive Director
Public Service Commission

Paul E. Patton
Governor

April 21, 1999

To: All parties of record

Re: Case No. 99-150
Filing Deficiencies

The Commission staff has reviewed your application in the above case. This filing is rejected pursuant to 807 KAR 5:001, Section 2, for the reasons set forth below. These items are either required to be filed with the application or to be referenced in the application if they are already on file in another case or will be filed at a later date.

Filing deficiency pursuant to KRS 322.340

At least one copy of preliminary and final engineering report shall be signed, sealed, and dated by a registered professional engineer.

The statutory time period in which the Commission must process this case will not commence until the above-mentioned information is filed with the Commission. You are requested to file six copies of this information within 15 days of this letter. If you need further information, please contact James Rice of my staff at 502-564-3940, extension 411.

Sincerely,

A handwritten signature in black ink that reads "Stephanie Bell".

Stephanie Bell
Secretary of the Commission

sh



Mr. Dennis L. Willaman
General Manager
Northern Kentucky Water
Service District
100 Aqua Drive
P. O. Box 220
Cold Spring, KY. 41076

Honorable James M. Honaker
Attorney at Law
Sower Building
219 St. Clair Street
Frankfort, KY. 40601

Honorable John N. Hughes
Attorney at Law
124 West Todd Street
Frankfort, KY. 40601

Charles H. Pangburn
404 Long Meadow Lane
Covington, KY. 41017



COMMONWEALTH OF KENTUCKY
PUBLIC SERVICE COMMISSION

730 SCHENKEL LANE
POST OFFICE BOX 615
FRANKFORT, KY. 40602
(502) 564-3940

April 15, 1999

To: All parties of record

RE: Case No. 99-150
NORTHERN KENTUCKY WATER SERVICE DISTRICT
(Construct, Finance; 278.023) (Surcharge) (Deviation)

This letter is to acknowledge receipt of initial application in the above case. The application was date-stamped received April 13, 1999 and has been assigned Case No. 99-150. In all future correspondence or filings in connection with this case, please reference the above case number.

If you need further assistance, please contact my staff at 502/564-3940.

Sincerely,

A handwritten signature in cursive script that reads "Stephanie Bell".

Stephanie Bell
Secretary of the Commission

SB/jc

Mr. Dennis L. Willaman
General Manager
Northern Kentucky Water
Service District
100 Aqua Drive
P. O. Box 220
Cold Spring, KY. 41076

Honorable James M. Honaker
Attorney at Law
Sower Building
219 St. Clair Street
Frankfort, KY. 40601

Honorable John N. Hughes
Attorney at Law
124 West Todd Street
Frankfort, KY. 40601

Charles H. Pangburn
404 Long Meadow Lane
Covington, KY. 41017

JAMES M. HONAKER

SOWER BUILDING
219 ST. CLAIR STREET
FRANKFORT, KENTUCKY 40601

April 13, 1999

Honorable Helen Helton
Executive Director
Public Service Commission of Kentucky
P. O. Box 615
Frankfort, Kentucky 40602

RECEIVED

APR 13 1999

PUBLIC SERVICE
COMMISSION

Re: Case No. 99-150
Application and Motion
Sub-District C

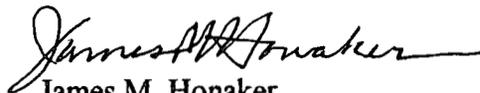
Dear Executive Director Helton :

Tendered herewith is an original and ten (10) copies of Northern Kentucky Water Service District's Application and Motion for a Certificate authorizing the construction of Sub-District C. The Application contains a Table of the Exhibits. Some Exhibits are bulky. Staff has advised that three copies will be acceptable.

Since part of the funding will be from the USDA this Application, as you are well aware, comes under the provisions of KRS 278.023, which among other things, imposes a thirty (30) days processing limit. The proposed rates are Mandated by the USDA. Notice has been given to potential customers by publication in the Sub-District C Area. All other rates remain unchanged.

Please promptly advise the undersigned and Mr. Dennis L. Willaman, General Manager, Northern Kentucky Water Service District, 100 Aqua Drive, P. O. Box 220, Cold Spring, Kentucky 41076, if any further information is needed.

Respectfully,



James M. Honaker
Counsel for Northern
Kentucky Water Service
District

JMH : anb

attachments

FILED

APR 23 1999

PUBLIC SERVICE
COMMISSION
RECEIVED

APR 13 1999

PUBLIC SERVICE
COMMISSION

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

APPLICATION AND MOTION OF NORTHERN KENTUCKY)	
WATER SERVICE DISTRICT TO CONSTRUCT AN)	
EXTENSION, SUB-DISTRICT C, TO SERVE APPROXIMATELY)	CASE
400 NEW CUSTOMERS, AND TO INSTITUTE A SURCHARGE)	NO.
UNDER KRS 278.023 WITH NO CHANGE IN NORTHERN'S)	99-150
GENERAL WATER RATES; ESTIMATED FUNDING OF)	
\$5,200,000 IN LARGE MEASURE BY USDA, PLUS)	
COMMUNITY EFFORTS)	

APPLICATION
AND
MOTION

1. The full name and address of the Applicant is Northern Kentucky Water Service District, c/o Dennis Willaman, P.E., General Manager, 100 Aqua Drive, P. O. Box 220, Cold Spring, Kentucky 41076.

2. Northern Kentucky Water Service District, (Northern or District), is the lawful successor to the former Campbell County Kentucky Water District (originally established in 1953) and former Kentucky County Water District No. 1 (originally established in 1926). It has authority and duty to plan, design, extend, finance, construct, install, operate, upgrade, and maintain a water treatment system and water distribution system within its service area approved by the PSC.

7. The subject construction project may be identified as Project U for convenience, being the same Project U that the PSC classified in its Order dated June 9, 1998 in Case No. 98-079. It is in the public interest and for a lawful purpose. Reference is made to Case No. 98-079 for any essential background.

8. By location and manner of funding Sub-District C is kindred to Sub-District B which was approved by PSC Order of December 16, 1994 (and clarified by Order of January 26, 1995) in Case No. 94-409. The following quote is taken from the general Order in Case No. 94-409:

"{Kenton} District's application is filed pursuant to KRS 278.023 which requires the Commission to accept agreements between water districts and the U. S. Department of Agriculture or the U. S. Department of Housing and Urban Development and to issue the necessary orders to implement the terms of such agreements within 30 days of satisfactory completion of the minimum filing requirements. Given that minimum filing requirements were met in this case on November 23, 1994, KRS 278.023 does not grant the Commission any discretionary authority to modify or reject any portion of this agreement."

9. Sub-District C water lines and their possible connections will fortify water pressure in Sub-District B and increase the potential for water service and development in southern Kenton County. In fact, the RUS 1995 Bond Issue of \$1,621,000 obtained by Sub-District B is referenced by USDA in ~~is~~ instant agreement with Northern for Sub-District C. Rural Utilities Service is an agency of USDA.

3. Northern operates under the provisions of KRS Chapter 74 which constitutes its Articles of Incorporation. It is subject to the jurisdiction of the Public Service Commission, under KRS Chapter 278. Particular reference is made to KRS 278.023 and 807 KAR 5:069.

4. Northern, in this Application, seeks a deviation as provided in Section 14 of the Regulations, for any occasion that may arise where strict compliance with a Rule or a detail is impracticable or unduly burdensome; or, would cause delay. Please see Motion included.

5. Its gross plant is approaching \$160,000,000. Reference is made to Northern's 1998 Annual Report to the Commission on file, for a full description of the existing plant by accounts, and other operations data.

6. Northern proposes and seeks approval of plans as exhibited herein (see Table of Exhibits) to extend potable water service in an area known as Sub-District C in rural southern Kenton County, at an estimated cost of \$5,200,000 to initially serve about 400 customers. Northern's management has approved Sub-District C in all respects.

A USDA 40-year term loan of approximately \$2,287,000 (Bond Issue) will be administered on behalf of the Rural Utilities Service (RUS) by the State and Area office staff of USDA, Rural Development. The other sources of funds are reflected in Exhibits herewith. Rural Development will monthly audit the construction account records.

10. A Table of Exhibits appears as a preface to the various Exhibits complying with 807 KAR 5:069.

11. For purposes of fully complying with regulatory data requirements of this Application, reference is hereby made to all applicable rules, regulations, and standards, including, but not limited to, water supply, quality, testing, pressure, measuring devices, construction standards, depth of distribution mains and service lines; also, Northern's uniform rules for service line extensions and contributions, billing and collecting procedures, and all other customer related rates, tariffs, and prohibitions (on file at PSC).

Please see Affidavits (an Exhibit) of an authorized Northern official relating to compliance with 807 KAR 5:066.

MOTION

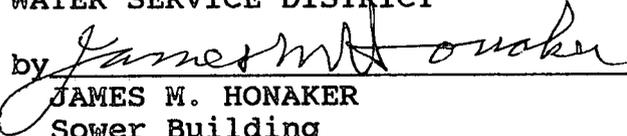
Referenced herein is the foregoing Application and its attendant Exhibits. If by misadventure some item of essential information has not been included, in such event, Northern requests either a deviation from that particular requirement, or, the opportunity to promptly respond by FAX to notice by telephone of the omission so that a deficiency time penalty will not be imposed. This is in the public interest for potable water service.

FOR AUTHORITY: 807 KAR 5:001, Section 14, Deviation from Rules.

FOR GROUNDS: Public immediate health and welfare needs.

WHEREFORE, Northern requests that the foregoing Motion be granted, and for all other relief to which it may be entitled.

FOR COUNSEL FOR NORTHERN KENTUCKY
WATER SERVICE DISTRICT

by 

JAMES M. HONAKER
Sower Building
219 St. Clair Street
Frankfort, KY 40601
Tel: (502) 223-0376

WHEREFORE, Northern Kentucky Water Service District:

1. Requests that the Commission process the foregoing Application under KRS 278.023 and issue an Order approving within thirty (30) days.
2. Requests the granting of its Motion seeking deviation under 807 KAR 5:001, Section 14, (if necessary), to accommodate any situation wherein inflexible compliance with a regulation would hinder or delay the District's federally funded construction program for Sub-District C consumers.
3. Requests that this Application be processed without a formal hearing to save time and expense. Northern stands ready to promptly respond to any inquiries, or any informal conference.
4. Requests that the Commission grant any and all other relief to which Applicant may be entitled.

Respectfully submitted,

CHARLES H. PANGBURN III
404 Long Meadow Lane
Covington, KY 41017

JAMES M. HONAKER
Sower Building
219 St. Clair Street
Frankfort, KY 40601
(502) 223-0376

JOHN N. HUGHES
124 West Todd Street
Frankfort, KY 40601
(502) 227-7270

by James M. Honaker
for COUNSEL FOR APPLICANT

NORTHERN KENTUCKY WATER SERVICE DISTRICT

TABLE OF EXHIBITS
COMPLYING WITH 807 KAR 5:069 AND 5:066

- A. A copy of the documents from the U. S. Department of Agriculture Agencies, stating approval of the water project and including all terms and conditions to be met.
- B. A copy of the letter of concurrence in bid award.
- C. A copy of the preliminary and final engineering reports.
- D. A certified statement from an authorized utility official confirming:
 - That the proposed plans and specifications for the project have been designed to meet the minimum construction and operation requirements established in 807 KAR 5:066, Section 4(3) and (4), Section 5(1), Sections 6 and 7, Section 8(1) through (3), Section 9(1), and Section 10.
 - That all other state approvals or permits have been obtained.
 - That the proposed rates, if any, shall produce the total revenue requirements set out in the engineering reports: and
 - The dates upon which construction is expected to begin and end.
- E. Copy of Notice to Customers (residents) of rate tariff. (Affidavit to be filed after the publishing is completed.
- F. The following mandatory Sub-District C rate tariffs are considered to be self-sustaining: All other rates remain unchanged.
- G. Cost of Facility and Financing:
- H. Explanation of future District Bond Issue: \$1,828,000.
- J. Explanation of Kenton County Fiscal Court Contribution of \$100,000. -. Agreement attached.
- I. HUD/Department of Local Government grant agreement.

**COMMONWEALTH OF KENTUCKY
COUNTY OF CAMPBELL**

Affiant, Ronald J. Barrow, being first duly sworn, deposes and says that he is Assistant General Manager of Northern Kentucky Water Service District, which is the Applicant in the proceeding styled above; that he has read the foregoing Sub-District C Application and knows the contents thereof, and that the same is true of his own knowledge, except as to matters which are therein stated on information or belief, and that is to those matters he believes them to be true.


Ronald J. Barrow
Assistant General Manager
Northern Kentucky Water Service District

Subscribed and sworn to before me in said County to be his act and deed by Ronald J. Barrow, Assistant General Manager of Northern Kentucky Water Service District, this 9th day of April, 1999.


NOTARY PUBLIC
Campbell County, Kentucky
My commission expires: 7-26-01

RECEIVED

APR 13 1999

PUBLIC SERVICE
COMMISSION

Application

Northern KY Water Service District

Sub-District C

C/N. 99-150

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**TABLE OF
CONTENTS**

NORTHERN KENTUCKY WATER SERVICE DISTRICT

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COMPLYING WITH 807 KAR 5:069 AND 5:066**

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United States
Department of
Agriculture

Rural
Development

771 Corporate Drive, Suite 200
Lexington, KY 40503-8477
(606) 224-7336 TTY(606) 224-7422

184-014
ORG.

N. K. W. S. D.
EXHIBIT A
PAGE 1-9

October 27, 1998

Dr. Patricia Sommerkamp
Chairman, Northern Kentucky Water Service District
3049 Dixie Highway
P.O. Box 17010
Covington, Kentucky 41017

Dear Dr. Sommerkamp:

This letter establishes conditions which must be understood and agreed to by you before further consideration may be given to the application. The loan will be administered on behalf of the Rural Utilities Service (RUS) by the State and Area office staff of USDA, Rural Development. Any changes in project cost, source of funds, scope of services or any other significant changes in the project or applicant must be reported to and approved by USDA, Rural Development, by written amendment to this letter. Any changes not approved by Rural Development shall be cause for discontinuing processing of the application. It should also be understood that Rural Development is under no obligation to provide additional funds to meet an overrun in construction costs.

This letter is not to be considered as loan approval or as a representation as to the availability of funds. The docket may be completed on the basis of a RUS loan not to exceed \$2,287,000, a Department of Housing and Urban Development (HUD) Community Development Block Grant (CDBG) of \$886,800, a private bond issue in the amount of \$1,828,000, a cash contribution from Kenton County Fiscal Court in the amount of \$100,000, and a cash contribution from local fund raising in the amount of \$10,000.

If Rural Development makes the loan, you may make a written request that the interest rate be the lower of the rate in effect at the time of loan approval or the time of loan closing. If you do not request the lower of the two interest rates, the interest rate charged will be the rate in effect at the time of loan approval. The loan will be considered approved on the date a signed copy of Form RD 1940-1, "Request for Obligation of Funds," is mailed to you. If you want the lower of the two rates, your written request should be submitted to Rural Development as soon as practical. In order to avoid possible delays in loan closing, such a request should ordinarily be submitted at least 30 days before loan closing.

Please complete and return the attached Form RD 1942-46, "Letter of Intent to Meet Conditions," if you desire that further consideration be given to your application.

Rural Development is an Equal Opportunity Lender.
Complaints of discrimination should be sent to:
Secretary of Agriculture, Washington, D.C. 20250

Northern Kentucky Water Service District

The "Letter of Intent to Meet Conditions" must be executed within three weeks from the date of this letter or it becomes invalid unless a time extension is granted by Rural Development.

If the conditions set forth in this letter are not met within 240 days from the date hereof, Rural Development reserves the right to discontinue the processing of the application.

In signing Form RD 1942-46, you are agreeing to complete the following as expeditiously as possible:

1. Number of Users and Their Contribution:

There shall be 59,977 water users, of which 59,632 are existing users and 345 are new users contributing \$76,000 in connection fees toward the cost of the project. The connection fees will be collected prior to advertising for construction bids and will be placed in the construction account at loan pre-closing, unless spent for authorized purposes prior to loan pre-closing. The Rural Development Manager will review and authenticate the number of users and amount of connection fees prior to advertising for construction bids.

2. Repayment Period:

The loan will be scheduled for repayment over a period not to exceed 40 years from the date of the bond. Principal payment will not be deferred for a period in excess of two (2) years from the date of the bond. Payments will be in accordance with applicable KRS which requires interest to be paid semi-annually (February 1st and August 1st) and principal will be due on or before the first of August. Rural Development may require the Water District to adopt a supplemental payment agreement providing for monthly payments of principal and interest so long as the bond is held or insured by RUS. Monthly payments will be approximate amortized installments.

Rural Development encourages the use of the Preauthorized Debit (PAD) payment process, which authorizes the electronic withdrawal of funds from your bank account on the exact installment payment due date (contact the Rural Development Manager for further information).

3. Funded Depreciation Reserve Account:

The Water District will be required to deposit \$1,150.00 per month into a "Funded Depreciation Reserve Account". The monthly deposits are for the life of the loan.

The required deposits to the Reserve Account are in addition to the requirements of the Water District's prior bond resolutions.

The annual deposit to the Reserve Account are required to commence the first full fiscal year after the facility becomes operational.

Northern Kentucky Water Service District

4. Security Requirements:

A combined pledge of gross water revenue will be provided in the Bond Resolution. Bonds shall rank on a parity with existing bonds, if possible. If this is not possible, the bond will be subordinate and junior to the existing bonds, in which case the Water District will be required to abrogate its right to issue additional bonds ranking on a parity with the existing bonds, so long as any unpaid indebtedness remains on this bond issue.

5. Land Rights and Real Property:

The Water District will be required to furnish satisfactory title, easements, etc., necessary to install, maintain and operate the facility to serve the intended users. The pipelines will be on private rights-of-way where feasible. Easements and options are to be secured prior to advertising for construction bids.

6. Organization:

The Water District will be legally organized under applicable KRS which will permit them to perform this service, borrow and repay money.

7. Business Operations:

The Water District will be required to operate the system under a well-established set of resolutions, rules and regulations. A budget must be established annually and adopted by the Water District after review by Rural Development. At no later than loan pre-closing, the Water District will be required to furnish a prior approved management plan to include, as a minimum, provisions for management, maintenance, meter reading, miscellaneous services, billing, collecting, bookkeeping, making and delivering required reports and audits.

8. Accounts, Records and Audits:

The Water District will be required to maintain adequate records and accounts and submit annual budgets and year-end reports (annual audits) in accordance with subsection 1730.47 of RUS Instruction 1780 and RUS Staff Instruction 1780-4, a copy of which is enclosed.

9. Accomplish Audits for Years in Which Federal Financial Assistance is Received:

The Water District will accomplish audits in accordance with OMB Circular A-133, during the years in which federal funds are received. The Water District will provide copies of the audits to the Area Office and the appropriate Federal cognizant agency as designated by OMB Circular A-133.

Northern Kentucky Water Service District

10. Insurance and Bonding:

The following insurance and bonding will be required:

- A. Adequate Liability and Property Damage Insurance including vehicular coverage, if applicable, must be obtained and maintained by the Water District. The Water District should obtain amounts of coverage as recommended by its attorney, consulting engineer and/or insurance provider.
- B. Worker's Compensation - The Water District will carry worker's compensation insurance for employees in accordance with applicable state laws.
- C. Fidelity Bond - The Water District will provide Fidelity Bond Coverage for all persons who have access to funds. Coverage may be provided either for all individual positions or persons, or through "blanket" coverage providing protection for all appropriate employees and/or officials. The amount of coverage required for all RUS loans is \$240,000.
- D. Real Property Insurance - The Water District will obtain and maintain adequate fire and extended coverage on all structures including major items of equipment or machinery located in the structures. The amounts of coverage should be based on recommendations obtained by the Water District from its attorney, consulting engineer and/or insurance provider. Subsurface lift stations do not have to be covered except for the value of electrical and pumping equipment therein.
- E. Flood Insurance - The Water District will obtain and maintain adequate coverage on any facilities located in a special flood and mudslide prone areas.

11. Planning and Performing Development:

- A. The engineer should not be authorized to commence work on final plans and specifications until a determination has been made that the project can be planned and constructed within the estimated cost shown in paragraph "20" of this letter. The engineer may then proceed to develop final plans and specifications to be completed no later than 210 days from this date, and prepare bid documents. The Rural Development Manager is prepared to furnish the necessary guide for him to follow so as to keep the project plans and documents within our guidelines and requirements. The project should not be advertised for construction bids until all easements and enforceable options have been obtained, and total funds are committed or available for the project.

Northern Kentucky Water Service District

B. The following documents will be submitted to Rural Development for review and must be concurred in by Rural Development prior to advertisement for construction bids:

1. Final plans, specifications and bid documents.
2. Applicant's letter on efforts to encourage small business and minority-owned business participation.
3. Legal Service Agreements.
4. Engineering Agreements.

Revision in these documents will be subject to Rural Development concurrence. Any agreements, contracts, etc. not reviewed and approved by Rural Development will not be eligible for payment from project funds or revenues from facilities financed by this Agency.

Prior to receipt of an authorization to advertise for construction bids, the Water District will obtain advance clearance from Bond Counsel regarding compliance with KRS 424 pertaining to publishing of the advertisement for construction bids in local newspapers and the period of time the notice is required to be published.

12. Compliance with Section 504 of the Rehabilitation Act of 1973:

The Water District will be required to comply with Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), in order to make sure no handicapped individual, solely by reason of their handicap, is excluded from participation in the use of the water system, be denied the benefits of the water system, or be subjected to discrimination.

13. Closing Instructions:

The Office of General Counsel, our Regional Attorney, will be required to write closing instructions in connection with this loan. Conditions listed therein must be met by the Water District.

14. Compliance with Special Laws and Regulations:

The Water District will be required to conform with any and all state and local laws and regulations affecting this type project.

15. Treatment Plant/System Operator:

The Water District is reminded that the treatment plant and/or system operator must have an Operator's Certificate issued by the State.

Northern Kentucky Water Service District

16. Prior to Pre-Closing the Loan, the Water District will be Required to Adopt:

- A. Form RD 1942-47, "Association Loan Resolution (Public Body)."
- B. Form RD 400-1, "Equal Opportunity Agreement."
- C. Form RD 400-4, "Assurance Agreement."
- D. Form AD-1047, "Certification Regarding Debarment, Suspension, and Other Responsibility Matters - Primary Covered Transaction."
- E. Form RD 1910-11, "Applicant Certification Federal Collection Policies for Consumer or Commercial Debts."
- F. FmHA Instruction 1940-Q, Exhibit A-1, "Certification for Contracts, Grants and Loans."

The Water District must offer the opportunity for all residents in the service area to become users of the facilities regardless of race, creed, color, religion, sex, national origin, marital status, physical or mental handicap or level of income.

17. Refinancing and Graduation Requirements:

The Water District is reminded that if at any time it shall appear to the Government that the Water District is able to refinance the amount of the RUS indebtedness then outstanding, in whole or in part, by obtaining a loan from commercial sources at reasonable rates and terms, upon the request of the Government, the Water District will apply for and accept such loan in sufficient amount to repay the Government.

18. Commercial Interim Financing:

The Water District will be required to use commercial interim financing for the project during construction for the RUS loan portion of the financing, if available at reasonable rates and terms.

Before the loan is closed, the Water District will be required to provide Rural Development with statements from the contractor, engineer and attorneys that they have been paid to date in accordance with their contract or other agreements and, in the case of the contractor, that he has paid his suppliers and sub-contractors.

19. Disbursement of Project Funds:

A construction account for the purpose of disbursement of project funds (RUS) will be established by the Water District prior to start of construction. The position of officials entrusted with the receipt and disbursement of RUS project funds will be covered by a "Fidelity Bond," with USDA-Rural Development as Co-Obligee, in the amount of construction funds on hand at any one time during the construction phase.

During construction, the Water District shall disburse project funds in a manner consistent with subsection 1780.76 (e) of RUS Instruction 1780. Form RD 1924-18, "Partial Payment Estimate," or similar form approved by Rural Development, shall be used for the purpose of documenting periodic construction estimates, and shall be submitted to Rural Development for review and acceptance. Prior to disbursement of funds by the Water District, the Board of Directors shall review and approve each payment estimate. All bills and vouchers must be approved by Rural Development prior to payment by the Water District.

Form RD 440-11, "Estimate of Funds Needed for 30-Day Period Commencing _____," will be prepared by the Water District and submitted to Rural Development in order that a periodic advance of federal cash may be requested.

Monthly audits of the Water District's construction account records shall be made by Rural Development.

20. Cost of Facility:

Breakdown of Costs:

Development	\$ 4,218,700
Land and Rights	10,000
Legal and Administrative	42,500
Engineering	384,800
Interest	120,000
Contingencies	<u>411,800</u>
TOTAL	\$ 5,187,800

Financing:

RUS Loan	\$ 2,287,000
Private Bond Issue	1,828,000
HUD-CDBG	886,800
Kenton County Fiscal Court	100,000
Applicant Contribution	76,000
Local Fund Raising	<u>10,000</u>
TOTAL	\$ 5,187,800

21. Use of Remaining Project Funds:

The applicant contribution and local contributions shall be considered as the first funds expended. After providing for all authorized costs, any remaining project funds will be considered to be RUS loan/CDBG grant funds and refunded in proportion to participation in the project. The funds of the private bond issue will be dispersed in accordance with the bond resolution.

Northern Kentucky Water Service District

22. Rates and Charges:

Rates and charges for facilities and services rendered by the Water District must be at least adequate to meet cost of maintaining, repairing and operating the water system and meeting required principal and interest payments and the required deposits to debt service and/or depreciation reserve.

Water rates will be at least:

First	600 cubic feet @ \$	16.42 - Minimum Bill.
Next	3,900 cubic feet @ \$	2.31 - per 100 cubic feet.
Next	490,500 cubic feet @ \$	1.99 - per 100 cubic feet.
All Over	490,500 cubic feet @ \$	1.20 - per 100 cubic feet.

A surcharge in the amount of \$24.00/month will be assessed users served by the RUS 1995 Bond issue of \$1,621,000.

A surcharge in the amount of \$30.00/month will be assessed users served by the RUS 1999 Bond issue of \$2,287,000.

The above mentioned surcharges will be in effect for the period of the loans unless discontinued with the concurrence of RUS and the Public Service Commission.

23. Water Purchase Contract:

The Water District will submit a Water Purchase Contract for approval by Rural Development before advertising for construction bids. If the contract is not on Form RD 442-30, "Water Purchase Contract," the contract will require approval by our Regional Attorney. The contract must meet the requirements of subsection 1780.62 of RUS Instruction 1780.

24. Commitment of HUD Grant, Kenton County Fiscal Court Contribution, and Local Fund Raising Contribution:

This Letter of Conditions is issued contingent upon a firm commitment being in effect prior to advertising for construction bids for the HUD Grant in the amount of \$886,800, the Kenton County Fiscal Court Contribution in the amount of \$100,000, and the Local Fund Raising Contribution in the amount of \$10,000.

Northern Kentucky Water Service District

25. Floodplain Construction:

The Water District will be required to pass and adopt a Resolution or amend its By-Laws whereby the Water District will deny any water service to any future customer wishing to build on or develop property located within a designated floodplain. If a customer or developer requests service for construction in a designated floodplain, the customer or developer must provide evidence and a justification for approval by the Water District and Rural Development officials that there are no other alternatives to construction or development within the designated floodplain. The community must be a participant in the National Flood Insurance Program (NFIP) and the customer or developer must obtain the required permits prior to the tap on restrictions being waived.

26. Water Withdrawal Permit:

The Water District will be required to obtain satisfactory evidence that a revised water withdrawal permit has been secured from the Division of Water. The permit must be obtained prior to the commencement of construction on the water project.

27. Final Approval Conditions:

Final approval of this loan will depend on your willingness, with the assistance of all your co-workers, to meet the conditions of this letter in an orderly and systematic manner. Then too, final approval will depend on funds being available.

In accordance with the intent of Congress as expressed in the FY 1998 Appropriations Act, recipients of Water and Waste assistance provided by the Rural Utilities Service are encouraged, in expending the assistance, to purchase only American-made equipment and products.

If you desire to proceed with your application, the Rural Development Manager will allot a reasonable portion of his time to provide guidance in application processing.

Sincerely,



THOMAS G. FERN
State Director
Rural Development

Enclosures

cc: Rural Development Manager - Shelbyville, Kentucky
Community Development Manager - Williamstown, Kentucky
Northern Kentucky ADD - Florence, Kentucky
Wayne Bridges - Covington, Kentucky
Peck, Shaffer & Williams - Covington, Kentucky
Viox & Viox, Inc. - Erlanger, Kentucky
PSC - ATTN: Claude Rhorer - Frankfort, Kentucky



United States
Department of
Agriculture

Rural
Development

771 Corporate Drive, Suite 200
Lexington, KY 40503-5477
(606) 224-7336 TTY(606) 224-7422

April 5, 1999

SUBJECT: Northern Kentucky Water Service District
Subdistrict C Project - Phases I, II and III
Concurrence in Contract Award

TO: Rural Development Manager
Shelbyville, Kentucky

Based on the bids received and the recommendation of the consulting engineer, Rural Development concurs in the award of the following contracts:

Phase I to the low bidder, Reynolds, Inc., in the amount of \$1,486,579.00;

Phase II to the low bidder, R.E. Huber Construction Co., Inc., in the amount of \$1,371,328.00; and

Phase III to the low bidder, Site Services, Inc., in the amount of \$567,029.10.

Christine B. Brewer
for THOMAS G. FERN
State Director
Rural Development

cc: Taft, Stettinius & Hollister
Crestview Hills, Kentucky

Viox & Viox, Inc.
Erlanger, Kentucky

**ITEM NO. 92
CONSTRUCTION BID TABULATIONS**

**NORTHERN KENTUCKY WATER SERVICE DISTRICT
SUBDISTRICT C**



VIOX & VIOX, INC.

Consulting Engineers & Surveyors

March 16, 1999

Mr. Dennis Willaman, P.E.
General Manager
Kenton County Water District No. 1
3049 Dixie Highway
Edgewood, KY 41017

• Planning

RE: Green Road and U.S. #25 Water Main Extension
Sub-District C - Phase I

Dear Sir:

We have reviewed all bids received on March 12, 1999 for the Green Road and U.S. #25 Water Main Extension Project, Sub-District C - Phase I. Bid tabulations were prepared and delivered previously to your office.

• Design

Several errors were discovered while preparing the tabulations, but none of the errors affected the low bid of Reynolds, Inc.

Reynolds, Inc. has been the contractor on several projects in Northern Kentucky, including a project of similar size for the Boone County Water District. Their bid is \$284,021.00 under our Engineers Estimate.

It is our recommendation that Reynolds, Inc. awarded the contract for this project. Their bid of \$1,486,579.00 was the lowest bid received.

Yours truly,

James H. Viox, III, P.E.
President

• Surveying



VIOX & VIOX, INC.

Consulting Engineers & Surveyors

March 16, 1999

Mr. Dennis Willaman, P.E.
General Manager
Kenton County Water District No. 1
3049 Dixie Highway
Edgewood, KY 41017

• Planning

RE: KY #17, Spillman Road, Hempfling Road Water Main Extension
Sub-District C - Phase II

Dear Sir:

We have reviewed all bids received on March 12, 1999 for the KY #17, Spillman Road, and Hempfling Road Water Main Extension Project, Sub-District C - Phase II. Bid tabulations were prepared and delivered previously to your office.

• Design

The low bidder was R.E. Huber Construction Company. They have not been a contractor on any Northern Kentucky Water Service District projects in the past. However, they have been the contractor on projects for the following:

1. Adams County Regional Water District
 - a. 5 to 6 miles of water main
 - b. Highly recommended by Brian Ast
2. Fleming County Water Association
 - a. Approximately 20 miles of water main
 - b. Good recommendation from Gene Jett

• Surveying

It is our recommendation that R.E. Huber Construction Company be awarded the contract for this project. Their bid of \$1,371,328.00 was the lowest bid received.

Yours truly,

James H. Viox, III, P.E.
President

466 Erlanger Road
Erlanger, Kentucky 41018

Tel: 606-727-3293
Fax: 606-727-8452
e-mail: viox@nkol.net



VIOX & VIOX, INC.

Consulting Engineers & Surveyors

March 16, 1999

Mr. Dennis Willaman, P.E.
General Manager
Kenton County Water District No. 1
3049 Dixie Highway
Edgewood, KY 41017

• Planning

RE: Staffordsburg Rd., Martin Rd. and Rector Rd. Water Main Extension
Sub-District C - Phase III

Dear Sir:

We have reviewed all bids received on March 12, 1999 for the Staffordsburg Road, Martin Road, and Rector Road Water Main Extension Project, Sub-District C - Phase III. Bid tabulations were prepared and delivered previously to your office.

• Design

The low bidder, Site Services, Inc., has not been a contractor on any Northern Kentucky Water Service District projects to date. They are a new company with no prior experience.

However, assuming that they can obtain the necessary bonds, and with the significant difference in cost between their bid and the next bidder, it is our recommendation that Site Services, Inc. be awarded the contract for this project. Their bid of \$567,029.10 was the lowest bid received.

Yours truly,

James H. Viox, III, P.E.
President

• Surveying

466 Erlanger Road
Erlanger, Kentucky 41018

Tel: 606-727-3293
Fax: 606-727-8452
e-mail: viox@nkol.net

**BREAKDOWN
PHASE I**

ITEM	QUANTITY	UNIT	REYNOLDS, INC.		HOWELL CONTRACTORS		COOMER CONTRACTORS	
			UNIT COST	COST	UNIT COST	COST	UNIT COST	COST
12" Ductile-Iron Pipe Cl. 50 & Fitting w/ Polywrap	46,700	LF	\$23.70	\$1,106,790.00	\$25.00	\$1,167,500.00	\$23.00	\$1,074,100.00
12" X 12" X 6" Ductile-Iron Anch. Tees & Block	102	EA	\$325.00	\$33,150.00	\$193.97	\$19,784.94	\$335.00	\$34,170.00
12" X 12" X 8" Ductile-Iron Anch. Tees & Block	12	EA	\$350.00	\$4,200.00	\$216.62	\$2,599.44	\$355.00	\$4,260.00
8" - 6" Ductile-Iron Reducer	2	EA	\$325.00	\$650.00	\$197.27	\$394.54	\$500.00	\$1,000.00
12" Ductile-Iron Resilient Seated Gate Valves & Boxes	1	EA	\$130.00	\$130.00	\$129.68	\$129.68	\$250.00	\$250.00
12" Ductile-Iron Resilient Seated Gate Valve w/ Test Ptl	35	EA	\$1,010.00	\$35,350.00	\$862.79	\$30,197.65	\$1,150.00	\$40,250.00
12" Tapping Sleeve & Valve	1	EA	\$1,120.00	\$1,120.00	\$1,291.02	\$1,291.02	\$1,250.00	\$1,250.00
12" Cast-Iron Pipe Plug & Block	1	EA	\$3,150.00	\$3,150.00	\$3,068.71	\$3,068.71	\$3,000.00	\$3,000.00
8" Cast-Iron Pipe Plugs & Blocks	3	EA	\$120.00	\$360.00	\$409.44	\$1,228.32	\$200.00	\$600.00
8" Ductile-Iron Resilient Seated Gate Valves & Boxes	11	EA	\$100.00	\$1,100.00	\$314.34	\$3,457.74	\$200.00	\$2,200.00
18" Steel Casing Pipe by Boring & Jacking	11	EA	\$610.00	\$6,710.00	\$465.47	\$5,120.17	\$775.00	\$8,525.00
Air-Relief Valve	98	LF	\$190.00	\$18,620.00	\$112.95	\$11,069.10	\$75.00	\$7,350.00
Fire Hydrant Assembly, Incl. 6" Ductile-Iron Resilient Seated Gate Valve & Valve Box, 6" Ductile-Iron Anchor. Coupling, Fire Hydrant, Blocking and Necessary Extensions	17	EA	\$320.00	\$5,440.00	\$518.71	\$8,818.07	\$350.00	\$5,950.00
Reinforced Concrete Encasement	103	EA	\$1,390.00	\$143,170.00	\$1,407.17	\$144,938.51	\$1,650.00	\$169,950.00
Water Services Short	160	LF	\$70.00	\$11,200.00	\$22.76	\$3,641.60	\$40.00	\$6,400.00
Water Services Long	59	EA	\$220.00	\$12,980.00	\$285.29	\$16,832.11	\$200.00	\$11,800.00
3/4" Service from Meter to within (2) Feet of House (74 Services)	60	EA	\$420.00	\$25,200.00	\$363.10	\$21,786.00	\$400.00	\$24,000.00
Gravel Drive & Shoulder Restoration	6,290	LF	\$5.00	\$31,450.00	\$4.15	\$26,103.50	\$2.00	\$12,580.00
	2,635	SY	\$5.00	\$13,175.00	\$7.26	\$19,130.10	\$12.00	\$31,620.00

NKWSdi

**BREAKDOWN
 PHASE I**

Asphaltic Drive Restoration Conforming to Exist. Materials & Thickness	468	SY	\$18.00	\$8,424.00	\$12.45	\$5,826.60	\$60.00	\$28,080.00
Concrete Drive Restoration Conforming to Exist. Thickness	185	SY	\$60.00	\$11,100.00	\$33.20	\$6,142.00	\$70.00	\$12,950.00
Asphaltic Street Restoration Conforming to Exist. Materials & Thickness	407	SY	\$20.00	\$8,140.00	\$25.94	\$10,557.58	\$60.00	\$24,420.00
Asphaltic Shoulder Restoration	214	SY	\$20.00	\$4,280.00	\$25.94	\$5,551.16	\$60.00	\$12,840.00
Concrete Highway Restoration Including Overlay where Existing	12	SY	\$45.00	\$540.00	\$103.74	\$1,244.88	\$70.00	\$840.00
Concrete Sidewalk Restoration	3	SY	\$50.00	\$150.00	\$57.06	\$171.18	\$70.00	\$210.00
TOTAL BID				\$1,486,579.00		\$1,516,584.60		\$1,518,595.00

**BREAKDOWN
PHASE I**

ITEM	QUANTITY	UNIT	R.E. HUBER CONSTRUCTION		PEFFERMAN CONSTRUCTION		SHEPHERD CONSTRUCTION	
			UNIT COST	COST	UNIT COST	COST	UNIT COST	COST
12" Ductile-Iron Pipe Cl. 50 & Fitting w/ Polywrap	46,700	LF	\$24.50	\$1,144,150.00	\$26.25	\$1,225,875.00	\$25.75	\$1,202,525.00
12" X 12" X 6" Ductile-Iron Anch. Tees & Block	102	EA	\$275.00	\$28,050.00	\$295.00	\$30,090.00	\$310.00	\$31,620.00
12" X 12" X 8" Ductile-Iron Anch. Tees & Block	12	EA	\$295.00	\$3,540.00	\$315.00	\$3,780.00	\$335.00	\$4,020.00
12" X 12" X 12" Ductile-Iron Tee & Blocks	2	EA	\$275.00	\$550.00	\$375.00	\$750.00	\$315.00	\$630.00
8" - 6" Ductile-Iron Reducer	1	EA	\$100.00	\$100.00	\$99.00	\$99.00	\$160.00	\$160.00
12" Ductile-Iron Resilient Seated Gate Valves & Boxes	35	EA	\$1,025.00	\$35,875.00	\$1,000.00	\$35,000.00	\$1,140.00	\$39,900.00
12" Ductile-Iron Resilient Seated Gate Valve w/ Test Pit	1	EA	\$1,500.00	\$1,500.00	\$2,275.00	\$2,275.00	\$1,670.00	\$1,670.00
12" Tapping Sleeve & Valve	1	EA	\$2,900.00	\$2,900.00	\$2,700.00	\$2,700.00	\$2,940.00	\$2,940.00
8" Cast-Iron Pipe Plug & Block	3	EA	\$200.00	\$600.00	\$200.00	\$600.00	\$130.00	\$390.00
8" Cast-Iron Pipe Plugs & Blocks	11	EA	\$200.00	\$2,200.00	\$165.00	\$1,815.00	\$130.00	\$1,430.00
8" Ductile-Iron Resilient Seated Gate Valves & Boxes	11	EA	\$650.00	\$7,150.00	\$565.00	\$6,215.00	\$750.00	\$8,250.00
18" Steel Casing Pipe by Boring & Jacking	98	LF	\$110.00	\$10,780.00	\$105.00	\$10,290.00	\$105.00	\$10,290.00
Air-Relief Valve	17	EA	\$250.00	\$4,250.00	\$430.00	\$7,310.00	\$410.00	\$6,970.00
Fire Hydrant Assembly, Incl. 6" Ductile-Iron Resilient Seated Gate Valve & Valve Box, 6" Ductile-Iron Anchor, Coupling, Fire Hydrant, Blocking and Necessary Extensions	103	EA	\$1,550.00	\$159,650.00	\$1,900.00	\$195,700.00	\$1,835.00	\$189,005.00
Reinforced Concrete Encasement	160	LF	\$50.00	\$8,000.00	\$29.95	\$4,792.00	\$43.50	\$6,960.00
Water Services Short	59	EA	\$200.00	\$11,800.00	\$500.00	\$29,500.00	\$615.00	\$36,285.00
Water Services Long	60	EA	\$325.00	\$19,500.00	\$700.00	\$42,000.00	\$915.00	\$54,900.00
3/4" Service from Meter to within (2) Feet of House (74 Services)	6,290	LF	\$6.50	\$40,885.00	\$5.00	\$31,450.00	\$3.25	\$20,442.50
Gravel Drive & Shoulder Restoration	2,635	SY	\$26.00	\$68,510.00	\$4.56	\$12,015.60	\$12.75	\$33,596.25

Nkwsdi

**BREAKDOWN
 PHASE I**

Asphaltic Drive Restoration Conforming to Exist. Materials & Thickness	468	SY	\$35.00	\$16,380.00	\$30.00	\$14,040.00	\$33.00	\$15,444.00
Concrete Drive Restoration Conforming to Exist. Thickness	185	SY	\$35.00	\$6,475.00	\$31.00	\$5,735.00	\$41.00	\$7,585.00
Asphaltic Street Restoration Conforming to Exist. Materials & Thickness	407	SY	\$35.00	\$14,245.00	\$31.00	\$12,617.00	\$35.00	\$14,245.00
Concrete Highway Restoration Including Overlay where Existing	214	SY	\$35.00	\$7,490.00	\$22.00	\$4,708.00	\$18.50	\$3,959.00
Concrete Sidewalk Restoration	12	SY	\$40.00	\$480.00	\$45.00	\$540.00	\$45.00	\$540.00
	3	SY	\$160.00	\$480.00	\$12.75	\$38.25	\$40.00	\$120.00
TOTAL BID				\$1,595,540.00		\$1,679,934.85		\$1,693,876.75

**BREAKDOWN
PHASE I**

ITEM	QUANTITY	UNIT	GROOMS CONSTRUCTION	
			UNIT COST	COST
12" Ductile-Iron Pipe Cl. 50 & Fitting w/ Polywrap	46,700	LF	\$25.00	\$1,167,500.00
12" X 12" X 6" Ductile-Iron Anch. Tees & Block	102	EA	\$200.00	\$20,400.00
12" X 12" X 8" Ductile-Iron Anch. Tees & Block	12	EA	\$220.00	\$2,640.00
8" - 6" Ductile-Iron Reducer	2	EA	\$210.00	\$420.00
12" Ductile-Iron Resilient Seated Gate Valves & Boxes	1	EA	\$100.00	\$100.00
12" Ductile-Iron Resilient Seated Gate Valve w/ Test Pit	35	EA	\$1,350.00	\$47,250.00
12" Tapping Sleeve & Valve	1	EA	\$3,000.00	\$3,000.00
12" Cast-Iron Pipe Plug & Block	1	EA	\$3,200.00	\$3,200.00
8" Cast-Iron Pipe Plugs & Blocks	3	EA	\$100.00	\$300.00
8" Ductile-Iron Resilient Seated Gate Valves & Boxes	11	EA	\$100.00	\$1,100.00
18" Steel Casing Pipe by Boring & Jacking Air-Relief Valve	11	EA	\$650.00	\$7,150.00
	98	LF	\$150.00	\$14,700.00
	17	EA	\$800.00	\$10,200.00
Fire Hydrant Assembly, Incl. 6" Ductile-Iron Resilient Seated Gate Valve & Valve Box, 6" Ductile-Iron Anchor. Coupling, Fire Hydrant, Blocking and Necessary Extensions	103	EA	\$1,650.00	\$169,950.00
Reinforced Concrete Encasement	160	LF	\$60.00	\$9,600.00
Water Services Short	59	EA	\$200.00	\$11,800.00
Water Services Long	60	EA	\$400.00	\$24,000.00
3/4" Service from Meter to within (2) Feet of House (74 Services)	6,290	LF	\$8.00	\$50,320.00
Gravel Drive & Shoulder Restoration	2,635	SY	\$100.00	\$263,500.00
Asphaltic Drive Restoration Conforming to Exist. Materials & Thickness	468	SY	\$50.00	\$23,400.00

Nkwsci

**BREAKDOWN
 PHASE I**

Concrete Drive Restoration Conforming to Exist. Thickness	185	SY	\$50.00	\$9,250.00				
Asphaltic Street Restoration Conforming to Exist. Materials & Thickness	407	SY	\$50.00	\$20,350.00				
Asphaltic Shoulder Restoration	214	SY	\$50.00	\$10,700.00				
Concrete Highway Restoration Including Overlay where Existing	12	SY	\$80.00	\$960.00				
Concrete Sidewalk Restoration	3	SY	\$60.00	\$180.00				
TOTAL BID				\$1,871,970.00				

**BREAKDOWN
PHASE II**

ITEM	QUANTITY	UNIT	R.E HUBER CONSTRUCTION		REYNOLDS, INC.		HOWELL CONTRACTORS	
			UNIT COST	COST	UNIT COST	COST	UNIT COST	COST
8" PVC (C-900 OR C-909) and Pipe Fittings	15,773	LF	\$11.00	\$173,503.00	\$14.70	\$231,863.10	\$17.00	\$268,141.00
12" Ductile-Iron Pipe Cl. 50 & Fittings w/ Polywrap	21,845	LF	\$23.50	\$513,357.50	\$26.80	\$585,446.00	\$25.50	\$557,047.50
16" Ductile-Iron Pipe Cl. 50 & Fittings w/ Polywrap	7,985	LF	\$30.50	\$243,542.50	\$32.80	\$261,908.00	\$38.00	\$303,430.00
8" X 8" X 6" Ductile-Iron Anchoring Tee & Blocks	33	EA	\$250.00	\$8,250.00	\$250.00	\$8,250.00	\$128.00	\$4,224.00
12" X 12" X 6" Ductile-Iron Anchoring Tee & Blocks	45	EA	\$275.00	\$12,375.00	\$350.00	\$15,750.00	\$201.00	\$9,045.00
12" X 12" X 8" Ductile-Iron Anchoring Tee & Blocks	5	EA	\$295.00	\$1,475.00	\$375.00	\$1,875.00	\$225.00	\$1,125.00
12" X 12" X 12" Ductile-Iron Tee & Blocks	1	EA	\$275.00	\$275.00	\$360.00	\$360.00	\$205.00	\$205.00
16" X 16" X 6" Ductile-Iron Anchoring Tee & Block	15	EA	\$500.00	\$7,500.00	\$560.00	\$8,400.00	\$427.00	\$6,405.00
16" X 16" X 12" Ductile-Iron Tee & Block	1	EA	\$500.00	\$500.00	\$560.00	\$560.00	\$427.00	\$427.00
12" - 8" Ductile-Iron Reducer	2	EA	\$200.00	\$400.00	\$170.00	\$340.00	\$100.00	\$200.00
16" - 12" Ductile-Iron Reducer	1	EA	\$300.00	\$300.00	\$280.00	\$280.00	\$125.00	\$125.00
16" Ductile-Iron Butterfly Valve & Box	1	EA	\$2,100.00	\$2,100.00	\$2,210.00	\$2,210.00	\$1,868.00	\$1,868.00
16" Ductile-Iron Butterfly Valve & Box w/ Test Pit	2	EA	\$2,590.00	\$5,180.00	\$2,510.00	\$5,020.00	\$2,000.00	\$4,000.00
12" Ductile-Iron Resilient Seated Gate Valve	15	EA	\$1,025.00	\$15,375.00	\$1,010.00	\$15,150.00	\$803.00	\$12,045.00
8" Ductile-Iron Resilient Seated Gate Valve	13	EA	\$650.00	\$8,450.00	\$590.00	\$7,670.00	\$400.00	\$5,200.00
Air Relief Valve	23	EA	\$250.00	\$5,750.00	\$390.00	\$8,970.00	\$500.00	\$11,500.00
Remove 8" Pipe Plug & Block	2	EA	\$200.00	\$400.00	\$320.00	\$640.00	\$50.00	\$100.00
Remove 16" Pipe Plug & Block	1	EA	\$300.00	\$300.00	\$390.00	\$390.00	\$100.00	\$100.00
8" Cast-Iron Pipe Plug & Block	7	EA	\$200.00	\$1,400.00	\$180.00	\$1,260.00	\$348.00	\$2,436.00
12" Cast-Iron Pipe Plug & Block	1	EA	\$225.00	\$225.00	\$290.00	\$290.00	\$348.00	\$348.00

**BREAKDOWN
PHASE II**

Fire Hydrant Assembly, Incl. 6" Ductile-Iron Resilient Seated Gate Valve & Valve Box, 6" Ductile-Iron Anchor, Coupling, 6" Ductile-Iron Anchor, Elbow, Fire Hydrant, Blocking and Necessary Extensions	60	EA	\$1,500.00	\$90,000.00	\$1,375.00	\$82,500.00	\$1,550.00	\$93,000.00
Fire Hydrant Assembly, Incl. 6" Ductile-Iron Resilient Seated Gate Valve & Valve Box, 6" Ductile-Iron Anchor, Coupling, Fire Hydrant, Blocking and Necessary Extensions	33	EA	\$1,500.00	\$49,500.00	\$1,375.00	\$45,375.00	\$1,450.00	\$47,850.00
Reinforced Concrete Encasement	120	LF	\$50.00	\$6,000.00	\$80.00	\$9,600.00	\$30.00	\$3,600.00
15" Steel Casing Pipe By Boring & Jacking	30	LF	\$85.00	\$2,550.00	\$220.00	\$6,600.00	\$115.00	\$3,450.00
24" Steel Casing Pipe By Boring & Jacking	40	LF	\$100.00	\$4,000.00	\$260.00	\$10,400.00	\$125.00	\$5,000.00
Water Services Short	82	EA	\$200.00	\$16,400.00	\$220.00	\$18,040.00	\$275.00	\$22,550.00
3/4" Service from Meter to within (2) Feet of House (107 Services)	83	EA	\$325.00	\$26,975.00	\$420.00	\$34,860.00	\$350.00	\$29,050.00
Gravel Drive & Shoulder Restoration	9,095	LF	\$8.00	\$54,570.00	\$5.00	\$45,475.00	\$4.00	\$36,380.00
Asphaltic Drive Restoration Conforming to Exist. Materials & Thickness	3,205	SY	\$26.00	\$83,330.00	\$5.00	\$16,025.00	\$7.00	\$22,435.00
Concrete Drive Restoration Conforming to Exist. Thickness	365	SY	\$35.00	\$12,775.00	\$18.00	\$6,570.00	\$12.00	\$4,380.00
Asphaltic Street Restoration Conforming to Exist. Materials & Thickness	129	SY	\$35.00	\$4,515.00	\$60.00	\$7,740.00	\$32.00	\$4,128.00
Concrete Highway Restoration Including Asphaltic Overlay where Existing	445	SY	\$35.00	\$15,575.00	\$20.00	\$8,900.00	\$25.00	\$11,125.00
Concrete Sidewalk Restoration	100	SY	\$40.00	\$4,000.00	\$45.00	\$4,500.00	\$50.00	\$5,000.00
	3	SY	\$160.00	\$480.00	\$50.00	\$150.00	\$50.00	\$150.00
TOTAL BID				\$1,371,328.00		\$1,453,367.10		\$1,476,069.50

**BREAKDOWN
PHASE II**

ITEM	QUANTITY	UNIT	COOMER CONTRACTOR		PAUL RACK EXCAVATING		SHEPHERD CONSTRUCTION	
			UNIT COST	COST	UNIT COST	COST	UNIT COST	COST
8" PVC (C-900 OR C-909) and Pipe Fittings	15,773	LF	\$14.00	\$220,822.00	\$23.45	\$369,876.85	\$18.50	\$291,800.50
12" Ductile-Iron Pipe Cl. 50 & Fittings w/ Polywrap	21,845	LF	\$25.00	\$546,125.00	\$25.81	\$563,819.45	\$28.50	\$622,582.50
16" Ductile-Iron Pipe Cl. 50 & Fittings w/ Polywrap	7,985	LF	\$38.00	\$303,430.00	\$33.96	\$271,170.60	\$38.50	\$307,422.50
8" X 8" X 6" Ductile-Iron Anchoring Tee & Blocks	33	EA	\$300.00	\$9,900.00	\$120.00	\$3,960.00	\$240.00	\$7,920.00
12" X 12" X 6" Ductile-Iron Anchoring Tee & Blocks	45	EA	\$425.00	\$19,125.00	\$200.00	\$9,000.00	\$310.00	\$13,950.00
12" X 12" X 8" Ductile-Iron Anchoring Tee & Blocks	5	EA	\$500.00	\$2,500.00	\$220.00	\$1,100.00	\$335.00	\$1,675.00
12" X 12" X 12" Ductile-Iron Tee & Blocks	1	EA	\$1,000.00	\$1,000.00	\$175.00	\$175.00	\$315.00	\$315.00
16" X 16" X 6" Ductile-Iron Anchoring Tee & Block	15	EA	\$800.00	\$12,000.00	\$365.00	\$5,475.00	\$520.00	\$7,800.00
12" - 8" Ductile-Iron Reducer	2	EA	\$500.00	\$500.00	\$365.00	\$365.00	\$525.00	\$525.00
16" - 12" Ductile-Iron Reducer	1	EA	\$280.00	\$560.00	\$85.00	\$130.00	\$200.00	\$400.00
16" Ductile-Iron Butterfly Valve & Box	1	EA	\$380.00	\$380.00	\$180.00	\$180.00	\$325.00	\$325.00
16" Ductile-Iron Butterfly Valve & Box w/ Test Pit	2	EA	\$2,400.00	\$2,400.00	\$1,750.00	\$1,750.00	\$2,350.00	\$2,350.00
12" Ductile-Iron Resilient Seated Gate Valve	15	EA	\$2,400.00	\$4,800.00	\$2,100.00	\$4,200.00	\$3,460.00	\$6,920.00
8" Ductile-Iron Resilient Seated Gate Valve	13	EA	\$776.00	\$10,088.00	\$850.00	\$12,750.00	\$1,140.00	\$17,100.00
Air Relief Valve	23	EA	\$250.00	\$5,750.00	\$200.00	\$4,600.00	\$275.00	\$6,325.00
Remove 8" Pipe Plug & Block	2	EA	\$100.00	\$200.00	\$100.00	\$200.00	\$75.00	\$150.00
Remove 16" Pipe Plug & Block	1	EA	\$150.00	\$150.00	\$100.00	\$100.00	\$150.00	\$150.00
8" Cast-Iron Pipe Plug & Block	7	EA	\$500.00	\$3,500.00	\$30.00	\$210.00	\$130.00	\$910.00
12" Cast-Iron Pipe Plug & Block	1	EA	\$500.00	\$500.00	\$50.00	\$50.00	\$140.00	\$140.00

**BREAKDOWN
PHASE II**

Fire Hydrant Assembly, Incl. 6" Ductile-Iron Resilient Seated Gate Valve & Valve Box, 6" Ductile-Iron Anchor. Coupling, 6" Ductile Iron Anchor. Elbow, Fire Hydrant, Blocking and Necessary Extensions	60	EA	\$1,650.00	\$99,000.00	\$1,700.00	\$102,000.00	\$1,425.00	\$85,500.00
Reinforced Concrete Encasement	33	EA	\$2,000.00	\$66,000.00	\$1,700.00	\$56,100.00	\$1,725.00	\$56,925.00
15" Steel Casing Pipe By Boring & Jacking	120	LF	\$110.00	\$13,200.00	\$45.00	\$5,400.00	\$43.50	\$5,220.00
24" Steel Casing Pipe By Boring & Jacking	30	LF	\$100.00	\$3,000.00	\$135.00	\$4,050.00	\$105.00	\$3,150.00
Water Services Short	40	LF	\$150.00	\$6,000.00	\$150.00	\$6,000.00	\$125.00	\$5,000.00
Water Services Long	82	EA	\$200.00	\$16,400.00	\$500.00	\$41,000.00	\$615.00	\$50,430.00
3/4" Service from Meter to within (2) Feet of House (107 Services)	83	EA	\$400.00	\$33,200.00	\$720.00	\$59,760.00	\$915.00	\$75,945.00
Gravel Drive & Shoulder Restoration	9,095	LF	\$2.00	\$18,190.00	\$9.40	\$85,493.00	\$3.25	\$29,558.75
Asphaltic Drive Restoration Conforming to Exist. Materials & Thickness	3,205	SY	\$50.00	\$160,250.00	\$7.80	\$24,999.00	\$12.75	\$40,863.75
Concrete Drive Restoration Conforming to Exist. Thickness	365	SY	\$60.00	\$21,900.00	\$36.00	\$13,140.00	\$33.00	\$12,045.00
Asphaltic Street Restoration Conforming to Exist. Materials & Thickness	129	SY	\$90.00	\$11,610.00	\$36.00	\$4,644.00	\$41.00	\$5,289.00
Concrete Highway Restoration Including Asphaltic Overlay where Existing	445	SY	\$60.00	\$26,700.00	\$42.00	\$18,690.00	\$35.00	\$15,575.00
Concrete Sidewalk Restoration	100	SY	\$90.00	\$9,000.00	\$75.00	\$7,500.00	\$45.00	\$4,500.00
	3	SY	\$90.00	\$270.00	\$27.00	\$81.00	\$40.00	\$120.00
TOTAL BID				\$1,646,450.00		\$1,684,468.90		\$1,686,422.00

BREAKDOWN
PHASE II

ITEM	QUANTITY	UNIT	UNIT COST	PEFFERMAN CONSTRUCTION		GROOMS CONSTRUCTION	
				COST	UNIT COST	COST	UNIT COST
8" PVC (C-900 OR C-909) and Pipe Fittings	15,773	LF	\$21.54	\$339,750.42	\$15.40	\$242,904.20	
12" Ductile-Iron Pipe Cl. 50 & Fittings w/ Polywrap	21,845	LF	\$30.25	\$660,811.25	\$26.25	\$573,431.25	
16" Ductile-Iron Pipe Cl. 50 & Fittings w/ Polywrap	7,985	LF	\$39.95	\$319,000.75	\$35.50	\$283,467.50	
8" X 8" X 6" Ductile-Iron Anchoring Tee & Blocks	33	EA	\$250.00	\$8,250.00	\$150.00	\$4,950.00	
12" X 12" X 6" Ductile-Iron Anchoring Tee & Blocks	45	EA	\$295.00	\$13,275.00	\$210.00	\$9,450.00	
12" X 12" X 8" Ductile-Iron Anchoring Tee & Blocks	5	EA	\$315.00	\$1,575.00	\$230.00	\$1,150.00	
12" X 12" X 12" Ductile-Iron Tee & Blocks	1	EA	\$500.00	\$500.00	\$210.00	\$210.00	
16" X 16" X 6" Ductile-Iron Anchoring Tee & Block	15	EA	\$595.00	\$8,925.00	\$450.00	\$6,750.00	
16" X 16" X 12" Ductile-Iron Tee & Block	1	EA	\$595.00	\$595.00	\$450.00	\$450.00	
12" - 8" Ductile-Iron Reducer	2	EA	\$400.00	\$800.00	\$200.00	\$400.00	
16" - 12" Ductile-Iron Reducer	1	EA	\$500.00	\$500.00	\$300.00	\$300.00	
16" Ductile-Iron Butterfly Valve & Box	1	EA	\$2,500.00	\$2,500.00	\$2,700.00	\$2,700.00	
16" Ductile-Iron Butterfly Valve & Box w/ Test Pit	2	EA	\$3,400.00	\$6,800.00	\$3,900.00	\$7,800.00	
12" Ductile-Iron Resilient Seated Gate Valve	15	EA	\$1,050.00	\$15,750.00	\$1,150.00	\$17,250.00	
8" Ductile-Iron Resilient Seated Gate Valve	13	EA	\$550.00	\$7,150.00	\$700.00	\$9,100.00	
Air Relief Valve	23	EA	\$430.00	\$9,890.00	\$600.00	\$13,800.00	
Remove 8" Pipe Plug & Block	2	EA	\$100.00	\$200.00	\$650.00	\$1,300.00	
Remove 16" Pipe Plug & Block	1	EA	\$200.00	\$200.00	\$775.00	\$775.00	
8" Cast-Iron Pipe Plug & Block	7	EA	\$100.00	\$700.00	\$400.00	\$2,800.00	
12" Cast-Iron Pipe Plug & Block	1	EA	\$200.00	\$200.00	\$400.00	\$400.00	

**BREAKDOWN
 PHASE II**

Fire Hydrant Assembly, Incl. 6" Ductile-Iron Resilient Seated Gate Valve & Valve Box, 6" Ductile-Iron Anchor, Coupling, 6" Ductile Iron Anchor, Elbow, Fire Hydrant, Blocking and Necessary Extensions	60	EA	\$1,900.00	\$114,000.00	\$1,850.00	\$111,000.00		
Fire Hydrant Assembly, Incl. 6" Ductile-Iron Resilient Seated Gate Valve & Valve Box, 6" Ductile-Iron Anchor, Coupling, Fire Hydrant, Blocking and Necessary Extensions	33	EA	\$1,800.00	\$59,400.00	\$1,750.00	\$57,750.00		
Reinforced Concrete Encasement	120	LF	\$29.95	\$3,594.00	\$60.00	\$7,200.00		
15" Steel Casing Pipe By Boring & Jacking	30	LF	\$105.00	\$3,150.00	\$140.00	\$4,200.00		
24" Steel Casing Pipe By Boring & Jacking	40	LF	\$105.00	\$4,200.00	\$170.00	\$6,800.00		
Water Services Short	82	EA	\$490.00	\$40,180.00	\$300.00	\$24,600.00		
Water Services Long	83	EA	\$590.00	\$48,970.00	\$400.00	\$33,200.00		
3/4" Service from Meter to within (2) Feet of House (107 Services)	9,095	LF	\$5.00	\$45,475.00	\$8.00	\$72,760.00		
Gravel Drive & Shoulder Restoration	3,205	SY	\$4.56	\$14,614.80	\$100.00	\$320,500.00		
Asphaltic Drive Restoration Conforming to Exist. Materials & Thickness	365	SY	\$30.00	\$10,950.00	\$50.00	\$18,250.00		
Concrete Drive Restoration Conforming to Exist. Thickness	129	SY	\$31.00	\$3,999.00	\$50.00	\$6,450.00		
Asphaltic Street Restoration Conforming to Exist. Materials & Thickness	445	SY	\$31.00	\$13,795.00	\$50.00	\$22,250.00		
Concrete Highway Restoration Including Asphaltic Overlay where Existing	100	SY	\$40.00	\$4,000.00	\$80.00	\$8,000.00		
Concrete Sidewalk Restoration	3	SY	\$12.75	\$38.25	\$60.00	\$180.00		
TOTAL BID				\$1,763,738.47		\$1,872,527.95		

BREAKDOWN
PHASE III

ITEM	QUANTITY	UNIT	SITE SERVICES		COOMER CONTRACTORS		SHEPHERD CONSTRUCTION	
			UNIT COST	COST	UNIT COST	COST	UNIT COST	COST
8" Ductile-Iron Class 50 W/ Polywrap	5,515	LF	\$19.44	\$107,211.60	\$18.00	\$99,270.00	\$21.00	\$115,815.00
12" Ductile-Iron Pipe Cl. 50 & Fittings w/ Polywrap	12,875	LF	\$21.14	\$272,177.50	\$23.00	\$296,125.00	\$27.25	\$350,843.75
8" X 8" X 6" Ductile-Iron Anchoring Tee & Blocks	8	EA	\$172.26	\$1,378.08	\$400.00	\$3,200.00	\$240.00	\$1,920.00
12" X 12" X 6" Ductile-Iron Anchoring Tee & Blocks	28	EA	\$240.92	\$6,745.76	\$400.00	\$11,200.00	\$310.00	\$8,680.00
12" X 12" X 12" Ductile-Iron Tee & Blocks	2	EA	\$265.40	\$530.80	\$400.00	\$800.00	\$335.00	\$670.00
12" Ductile-Iron Resilient Seated Gate Valve	11	EA	\$240.04	\$2,400.44	\$600.00	\$6,600.00	\$315.00	\$3,150.00
12" Ductile-Iron Resilient Seated Gate Valve w/ Test Tap	2	EA	\$964.66	\$1,929.32	\$1,250.00	\$2,500.00	\$1,140.00	\$2,280.00
8" Ductile-Iron Resilient Seated Gate Valve	3	EA	\$1,067.04	\$3,201.12	\$1,200.00	\$3,600.00	\$1,670.00	\$5,010.00
8" Ductile-Iron Resilient Seated Gate Valve w/ Test Tap	3	EA	\$486.58	\$1,459.74	\$850.00	\$2,550.00	\$825.00	\$2,475.00
Air Relief Valve	3	EA	\$600.14	\$1,800.42	\$1,000.00	\$3,000.00	\$1,380.00	\$4,140.00
Remove 12" Pipe Plug & Block	3	EA	\$1,544.40	\$4,633.20	\$300.00	\$900.00	\$410.00	\$1,230.00
12" Cast-Iron Pipe Plug & Block	1	EA	\$59.40	\$59.40	\$200.00	\$200.00	\$78.00	\$78.00
Relocate Fire Hydrant Assembly Including 8 X 8 X 6 Anchoring Tee and Blocks	4	EA	\$106.92	\$427.68	\$250.00	\$1,000.00	\$140.00	\$560.00
Fire Hydrant Assembly, Incl. 6" Ductile-Iron Resilient Seated Gate Valve & Valve Box, 6" Ductile-Iron Anchor, Coupling, 6" Ductile-Iron Anchor, Elbow, Fire Hydrant, Blocking and Necessary Extensions	2	EA	\$475.20	\$950.40	\$500.00	\$1,000.00	\$500.00	\$1,000.00
Fire Hydrant Assembly, Incl. 6" Ductile-Iron Resilient Seated Gate Valve & Valve Box, 6" Ductile-Iron Anchor, Coupling, Fire Hydrant, Blocking and Necessary Extensions	28	EA	\$1,188.00	\$33,264.00	\$2,000.00	\$56,000.00	\$1,425.00	\$39,900.00
	9	EA	\$1,782.00	\$16,038.00	\$1,750.00	\$15,750.00	\$1,960.00	\$17,640.00

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**BREAKDOWN
 PHASE III**

Remove 8"-6" Ductile-Iron Reducer	2	EA	\$59.40	\$118.80	\$300.00	\$600.00	\$35.00	\$70.00
4" PVC Trench Drain Including Select Backfill and Collars (See Detail)	350	LF	\$5.40	\$1,890.00	\$10.00	\$3,500.00	\$10.00	\$3,500.00
Reinforced Concrete Encasement	200	LF	\$239.76	\$47,952.00	\$70.00	\$14,000.00	\$43.50	\$8,700.00
Water Services Short	28	EA	\$190.08	\$5,322.24	\$200.00	\$5,600.00	\$615.00	\$17,220.00
Water Services Long	29	EA	\$37.80	\$1,096.20	\$400.00	\$11,600.00	\$915.00	\$26,535.00
3/4" Service from Meter to within (2) Feet of House (38 Services)	3,230	LF	\$3.90	\$12,597.00	\$2.00	\$6,460.00	\$6.25	\$20,187.50
Gravel Drive & Shoulder Restoration	543	SY	\$4.75	\$2,579.25	\$35.00	\$19,005.00	\$12.75	\$6,923.25
Asphaltic Drive Restoration Conforming to Exist. Materials & Thickness	302	SY	\$10.69	\$3,228.38	\$60.00	\$18,120.00	\$33.00	\$9,966.00
Concrete Drive Restoration Conforming to Exist. Thickness	9	SY	\$22.57	\$203.13	\$90.00	\$810.00	\$41.00	\$369.00
Asphaltic Street Restoration Conforming to Exist. Materials & Thickness	1811	SY	\$17.82	\$32,272.02	\$50.00	\$90,550.00	\$24.50	\$44,369.50
Concrete Sidewalk Restoration	4	SY	\$19.53	\$78.12	\$90.00	\$360.00	\$40.00	\$160.00
TOTAL BID				\$567,029.10		\$678,350.00		\$699,147.00

**BREAKDOWN
PHASE III**

ITEM	HARTMAN & SMITH CONSTRUCTION			REYNOLDS, INC.			GROOMS CONSTRUCTION		
	QUANTITY	UNIT	UNIT COST	COST	UNIT COST	COST	UNIT COST	COST	
8" Ductile-Iron Class 50 W/ Polywrap	5,515	LF	\$26.00	\$143,390.00	\$25.50	\$140,632.50	\$18.25	\$100,648.75	
12" Ductile-Iron Pipe Cl. 50 & Fittings w/ Polywrap	12,875	LF	\$28.00	\$360,500.00	\$32.00	\$412,000.00	\$24.50	\$315,437.50	
8" X 8" X 6" Ductile-Iron Anchoring Tee & Blocks	8	EA	\$250.00	\$2,000.00	\$300.00	\$2,400.00	\$150.00	\$1,200.00	
12" X 12" X 6" Ductile-Iron Anchoring Tee & Blocks	28	EA	\$300.00	\$8,400.00	\$375.00	\$10,500.00	\$210.00	\$5,880.00	
12" X 12" X 12" Ductile-Iron Tee & Blocks	2	EA	\$325.00	\$650.00	\$400.00	\$800.00	\$230.00	\$460.00	
12" Ductile-Iron Resilient Seated Gate Valve	1	EA	\$325.00	\$325.00	\$380.00	\$380.00	\$210.00	\$210.00	
12" Ductile-Iron Resilient Seated Gate Valve w/ Test Tap	11	EA	\$1,000.00	\$11,000.00	\$1,000.00	\$11,000.00	\$1,250.00	\$13,750.00	
8" Ductile-Iron Resilient Seated Gate Valve	2	EA	\$1,100.00	\$2,200.00	\$1,100.00	\$2,200.00	\$3,000.00	\$6,000.00	
8" Ductile-Iron Resilient Seated Gate Valve w/ Test Tap	3	EA	\$550.00	\$1,650.00	\$600.00	\$1,800.00	\$650.00	\$1,950.00	
Air Relief Valve	3	EA	\$650.00	\$1,950.00	\$720.00	\$2,160.00	\$2,300.00	\$6,900.00	
Remove 12" Pipe Plug & Block	3	EA	\$300.00	\$900.00	\$300.00	\$900.00	\$600.00	\$1,800.00	
12" Cast-Iron Pipe Plug & Block	1	EA	\$300.00	\$300.00	\$300.00	\$300.00	\$650.00	\$650.00	
Relocate Fire Hydrant Assembly Including 8 X 8 X 6 Anchoring Tee and Blocks	4	EA	\$200.00	\$800.00	\$250.00	\$1,000.00	\$650.00	\$2,600.00	
Fire Hydrant Assembly, Incl. 6" Ductile-Iron Resilient Seated Gate Valve & Valve Box, 6" Ductile-Iron Anchor. Coupling, 6" Ductile-Iron Anchor. Elbow, Fire Hydrant, Blocking and Necessary Extensions	2	EA	\$800.00	\$1,600.00	\$300.00	\$600.00	\$1,100.00	\$2,200.00	
Fire Hydrant Assembly, Incl. 6" Ductile-Iron Resilient Seated Gate Valve & Valve Box, 6" Ductile-Iron Anchor. Coupling, Fire Hydrant, Blocking and Necessary Extensions	28	EA	\$2,050.00	\$57,400.00	\$1,420.00	\$39,760.00	\$1,850.00	\$51,800.00	
Fire Hydrant Assembly, Incl. 6" Ductile-Iron Resilient Seated Gate Valve & Valve Box, 6" Ductile-Iron Anchor. Coupling, Fire Hydrant, Blocking and Necessary Extensions	9	EA	\$2,200.00	\$19,800.00	\$1,550.00	\$13,950.00	\$1,750.00	\$15,750.00	

**BREAKDOWN
PHASE III**

Remove 8"-6" Ductile-Iron Reducer	2	EA	\$200.00	\$400.00	\$175.00	\$350.00	\$400.00	\$800.00
4" PVC Trench Drain Including Select Backfill and Collars (See Detail)	350	LF	\$3.00	\$1,050.00	\$28.00	\$9,800.00	\$16.00	\$5,600.00
Reinforced Concrete Encasement	200	LF	\$15.00	\$3,000.00	\$68.00	\$13,600.00	\$60.00	\$12,000.00
Water Services Short	28	EA	\$400.00	\$11,200.00	\$240.00	\$6,720.00	\$300.00	\$8,400.00
Water Services Long	29	EA	\$700.00	\$20,300.00	\$440.00	\$12,760.00	\$400.00	\$11,600.00
3/4" Service from Meter to within (2) Feet of House (38 Services)	3,230	LF	\$5.00	\$16,150.00	\$5.00	\$16,150.00	\$8.00	\$25,840.00
Gravel Drive & Shoulder Restoration	543	SY	\$9.00	\$4,887.00	\$4.00	\$2,172.00	\$100.00	\$54,300.00
Asphaltic Drive Restoration Conforming to Exist. Materials & Thickness	302	SY	\$27.00	\$8,154.00	\$11.00	\$3,322.00	\$50.00	\$15,100.00
Concrete Drive Restoration Conforming to Exist. Thickness	9	SY	\$150.00	\$1,350.00	\$39.00	\$351.00	\$50.00	\$450.00
Asphaltic Street Restoration Conforming to Exist. Materials & Thickness	1811	SY	\$22.00	\$39,842.00	\$22.00	\$39,842.00	\$50.00	\$90,550.00
Concrete Sidewalk Restoration	4	SY	\$125.00	\$500.00	\$40.00	\$160.00	\$60.00	\$240.00
TOTAL BID				\$719,698.00		\$745,609.50		\$752,116.25

**BREAKDOWN
PHASE III**

ITEM	PFEFFERMAN CONSTRUCTION			PAUL RACK		HOWELL CONTRACTORS		
	QUANTITY	UNIT	UNIT COST	COST	UNIT COST	COST	UNIT COST	COST
8" Ductile-Iron Class 50 W/ Polywrap	5,515	LF	\$23.53	\$129,767.95	\$20.25	\$111,678.75	\$35.00	\$193,025.00
12" Ductile-Iron Pipe Cl. 50 & Fittings w/ Polywrap	12,875	LF	\$31.88	\$410,455.00	\$27.48	\$353,805.00	\$48.00	\$618,000.00
8" X 8" X 6" Ductile-Iron Anchoring Tee & Blocks	8	EA	\$275.00	\$2,200.00	\$120.00	\$960.00	\$130.00	\$1,040.00
12" X 12" X 6" Ductile-Iron Anchoring Tee & Blocks	28	EA	\$400.00	\$11,200.00	\$200.00	\$5,600.00	\$201.00	\$5,628.00
12" X 12" X 8" Ductile-Iron Anchoring Tee & Blocks	2	EA	\$415.00	\$830.00	\$220.00	\$440.00	\$225.00	\$450.00
12" X 12" X 12" Ductile-Iron Tee & Blocks	1	EA	\$450.00	\$450.00	\$175.00	\$175.00	\$205.00	\$205.00
12" Ductile-Iron Resilient Seated Gate Valve	11	EA	\$1,050.00	\$11,550.00	\$888.00	\$9,768.00	\$804.00	\$8,844.00
12" Ductile-Iron Resilient Seated Gate Valve w/ Test Tap	2	EA	\$2,150.00	\$4,300.00	\$980.00	\$1,960.00	\$1,320.00	\$2,640.00
8" Ductile-Iron Resilient Seated Gate Valve	3	EA	\$575.00	\$1,725.00	\$477.00	\$1,431.00	\$425.00	\$1,275.00
8" Ductile-Iron Resilient Seated Gate Valve w/ Test Tap	3	EA	\$675.00	\$2,025.00	\$575.00	\$1,725.00	\$600.00	\$1,800.00
Air Relief Valve	3	EA	\$430.00	\$1,290.00	\$200.00	\$600.00	\$500.00	\$1,500.00
Remove 12" Pipe Plug & Block	1	EA	\$200.00	\$200.00	\$10.00	\$10.00	\$100.00	\$100.00
12" Cast-Iron Pipe Plug & Block	4	EA	\$200.00	\$800.00	\$50.00	\$200.00	\$350.00	\$1,400.00
Relocate Fire Hydrant Assembly Including 8 X 8 X 6 Anchoring Tee and Blocks	2	EA	\$1,000.00	\$2,000.00	\$600.00	\$1,200.00	\$800.00	\$1,600.00
Fire Hydrant Assembly, Incl. 6" Ductile-Iron Resilient Seated Gate Valve & Valve Box, 6" Ductile-Iron Anchor. Coupling, 6" Ductile-Iron Anchor. Elbow, Fire Hydrant, Blocking and Necessary Extensions	28	EA	\$1,995.00	\$55,860.00	\$1,700.00	\$47,600.00	\$1,550.00	\$43,400.00
Fire Hydrant Assembly, Incl. 6" Ductile-Iron Resilient Seated Gate Valve & Valve Box, 6" Ductile-Iron Anchor. Coupling, Fire Hydrant, Blocking and Necessary Extensions	9	EA	\$1,900.00	\$17,100.00	\$1,700.00	\$15,300.00	\$1,450.00	\$13,050.00

**BREAKDOWN
PHASE III**

Remove 8"-6" Ductile-Iron Reducer	2	EA	\$250.00	\$500.00	\$10.00	\$20.00	\$100.00	\$200.00
4" PVC Trench Drain Including Select Backfill and Collars (See Detail)	350	LF	\$12.43	\$4,350.50	\$50.00	\$17,500.00	\$25.00	\$8,750.00
Reinforced Concrete Encasement	200	LF	\$29.95	\$5,990.00	\$45.00	\$9,000.00	\$30.00	\$6,000.00
Water Services Short	28	EA	\$490.00	\$13,720.00	\$500.00	\$14,000.00	\$275.00	\$7,700.00
Water Services Long	29	EA	\$690.00	\$20,010.00	\$720.00	\$20,880.00	\$350.00	\$10,150.00
3/4" Service from Meter to within (2) Feet of House (38 Services)	3,230	LF	\$5.00	\$16,150.00	\$9.40	\$30,362.00	\$4.00	\$12,920.00
Gravel Drive & Shoulder Restoration	543	SY	\$4.56	\$2,476.08	\$7.80	\$4,235.40	\$8.00	\$4,344.00
Asphaltic Drive Restoration Conforming to Exist. Materials & Thickness	302	SY	\$30.00	\$9,060.00	\$36.00	\$10,872.00	\$12.00	\$3,624.00
Concrete Drive Restoration Conforming to Exist. Thickness	9	SY	\$31.00	\$279.00	\$40.00	\$360.00	\$32.00	\$288.00
Asphaltic Street Restoration Conforming to Exist. Materials & Thickness	1811	SY	\$31.00	\$56,141.00	\$75.00	\$135,825.00	\$25.00	\$45,275.00
Concrete Sidewalk Restoration	4	SY	\$12.75	\$51.00	\$27.00	\$108.00	\$50.00	\$200.00
TOTAL BID				\$780,480.53		\$795,615.15		\$993,408.00

Nkwsdiii

**N.K.W.S.D.
EXHIBIT-C1
PAGE 1 OF 51**

**PRELIMINARY ENGINEERING REPORT
WATER FACILITY**

APPLICATION FOR FEDERAL ASSISTANCE

1. TYPE OF SUBMISSION: Application <input type="checkbox"/> Construction <input type="checkbox"/> Non-Construction Preapplication <input checked="" type="checkbox"/> Construction <input type="checkbox"/> Non-Construction	2. DATE SUBMITTED REV: 9-15-97	Applicant Identifier
	3. DATE RECEIVED BY STATE	State Application Identifier
	4. DATE RECEIVED BY FEDERAL AGENCY	Federal Identifier

5. APPLICANT INFORMATION

Legal Name: Northern Kentucky Water Service District	Organizational Unit: Special District
Address (give City, County, state and zip code) P.O. Box 17010 Covington, Kenton County, Kentucky 41017	Name and telephone number of the person to be contacted on matters involving this application (give area code) Richard Harrison, NKWSD OR Will Linder & Assoc., Consultants 606/578-7890 606/988-8406 FAX Number: 606/578-5456 606/988-4888
6. EMPLOYER IDENTIFICATION NUMBER (EIN):	7. TYPE OF APPLICANT: (enter appropriate letter in box) G A. State B. County C. Municipal D. Township E. Interstate F. Intermunicipal G. Special District Other (Specify): H. Independent School Dist. I. State Controlled Institution of Higher Learning J. Private University K. Indian Tribe L. Individual M. Profit Organization
8. TYPE OF APPLICATION: <input type="checkbox"/> New <input type="checkbox"/> Continuation <input checked="" type="checkbox"/> Revision If Revision, enter appropriate letter(s) in box(es): A. Increase Award B. Decrease Award C. Increase Duration D. Decrease Duration Other (specify): Modification in Budget <input checked="" type="checkbox"/> Other	9. NAME OF FEDERAL AGENCY: USDA Rural Development Administration
10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBER: Title: Water Systems for Rural Communities 1 0 - 7 6 0	11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT: The project will provide water to seven areas in southwestern Kenton County. The system will utilize a combination of PVC and ductile iron to accommodate various pressures. An expanded Description of the Project and Needs and a detailed budget breakdown is attached.
12. AREAS AFFECTED BY PROJECT (cities, counties, states, etc.): Southern Kenton County, Kentucky	

13. PROPOSED PROJECT: Start Date: 1-98 Ending Date: 1-99	14. CONGRESSIONAL DISTRICTS OF: Kentucky a. Applicant: 4th District - Jim Bunning, Representative b. Project: 4th District, Jim Bunning, Representative
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15. ESTIMATED FUNDING: <table border="1"> <tr><td>a. Federal (RD)</td><td>\$ 2,130,059.00</td></tr> <tr><td>b. Applicant</td><td>\$ 166,500.00</td></tr> <tr><td>c. State (CDBG)</td><td>\$ 1,000,000.00</td></tr> <tr><td>d. Local Kenton Co.</td><td>\$ 50,000.00</td></tr> <tr><td>e. Other -Community</td><td>\$ 10,000.00</td></tr> <tr><td>f. Other-NKWSD Bond Issue</td><td>\$ 1,821,012.00</td></tr> <tr><td>g. TOTAL</td><td>\$ 5,262,675.00</td></tr> </table>	a. Federal (RD)	\$ 2,130,059.00	b. Applicant	\$ 166,500.00	c. State (CDBG)	\$ 1,000,000.00	d. Local Kenton Co.	\$ 50,000.00	e. Other -Community	\$ 10,000.00	f. Other-NKWSD Bond Issue	\$ 1,821,012.00	g. TOTAL	\$ 5,262,675.00	16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS? a. YES. THIS PREAPPLICATION/APPLICATION WAS MADE AVAILABLE TO THE STATE EXECUTIVE ORDER 12372 PROCESS FOR REVIEW ON: DATE <u>Sept. 4, 1998</u> Submitted with Ky. CDBG Application Copy of A-95 Comments are attached b. NO. <input type="checkbox"/> PROGRAM IS NOT COVERED BY E.O. 12372 <input type="checkbox"/> OR PROGRAM HAS NOT BEEN SELECTED BY STATE FOR REVIEW
a. Federal (RD)	\$ 2,130,059.00														
b. Applicant	\$ 166,500.00														
c. State (CDBG)	\$ 1,000,000.00														
d. Local Kenton Co.	\$ 50,000.00														
e. Other -Community	\$ 10,000.00														
f. Other-NKWSD Bond Issue	\$ 1,821,012.00														
g. TOTAL	\$ 5,262,675.00														

17. IS THE APPLICANT DELINQUENT ON ANY FEDERAL DEBT? <input type="checkbox"/> Yes if "Yes", attach an explanation. <input checked="" type="checkbox"/> No

18. TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL DATA IN THIS APPLICATION/PREAPPLICATION ARE TRUE AND CORRECT, THE DOCUMENT HAS BEEN DULY AUTHORIZED BY THE GOVERNING BODY OF THE APPLICANT AND THE APPLICANT WILL COMPLY WITH THE ATTACHED ASSURANCES IF THE ASSISTANCE IS AWARDED.

a. Typed Name of Authorized Representative Dennis L. Willaman	b. Title General Manager Northern Kentucky Water Service District	c. Telephone number 606 / 578-7890
d. Signature of Authorized Representative <i>Dennis L. Willaman</i>		e. Date Signed

BUDGET INFORMATION - Construction Programs

Revised August 26, 1996

NOTE: Certain Federal assistance programs require additional computations to arrive at the Federal share of project costs eligible for participation. If such is the case you will be notified.

COST CLASSIFICATION	a. Total Cost	b. Costs Not Allowable for Participation	c. Total Allowable Costs (Column a-b)
1. Administrative and legal expenses (admin/planning/legal/bond con.)	\$20,000.00	\$49,500.00	\$69,500.00
2. Land, structures, rights-of-way, appraisals, etc.	\$0.00	\$0.00	\$0.00
3. Relocation expenses and payments	\$0.00	\$0.00	\$0.00
4. Architectural and engineering fees (Eng. Design and 201 Plan)	\$191,077.00	\$110,811.00	\$301,888.00
5. Other architectural and engineering fees	\$0.00	\$0.00	\$0.00
6. Project inspection fees (Eng. Insp.)	\$111,461.00	\$64,641.00	\$176,102.00
7. Site work	\$0.00	\$0.00	\$0.00
8. Demolition and removal	\$0.00	\$0.00	\$0.00
9. Construction (Water lines)	\$1,578,740.00	\$2,614,155.00	\$4,192,895.00
10. Equipment	\$0.00	\$0.00	\$0.00
11. Miscellaneous	\$0.00	\$0.00	\$0.00
12. SUBTOTAL (sum of lines 1-11)	\$0.00	\$0.00	\$0.00
13. Contingencies	\$0.00	\$0.00	\$0.00
14. SUBTOTAL	\$185,176.00	\$217,114.00	\$402,290.00
15. Project (program) income	\$2,130,059.00	\$3,132,616.00	\$5,262,675.00
16. TOTAL PROJECT COSTS (subtract #15 from #14)	\$0.00	\$0.00	\$0.00
FEDERAL FUNDING			
17. Federal assistance requested, calculate as follows: (Consult Federal agency for Federal percentage share). Enter the resulting federal share.	\$2,130,059.00	\$3,132,616.00	\$5,262,675.00

Enter eligible costs from line 16c. Multiply x _____%

\$2,130,059.00

Standard Form 424
Prescribed by OMB Circular

Authorized for Local Reproduction

**RURAL DEVELOPMENT REVISED 424 FORM
ATTACHMENTS**

CDBG PROJECT DESCRIPTION

PROJECT MAPS

**PROJECT BUDGET
AND ENGINEER'S ESTIMATES**

CDBG 1997 NEEDS SECTION

KENTUCKY A-95 CLEARINGHOUSE COMMENTS

BRIEF DESCRIPTION OF CDBG PROJECT (Maps included showing project location):

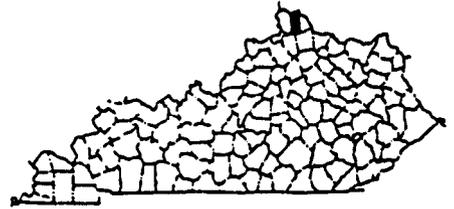
The Northern Kentucky Water Service District (formerly the Kenton County Water District #1) has planned for several years to expand service into the southern portion of Kenton County to serve a potential total of 436 new residential customers currently without potable water service; 258 or 59% of the new residential customers are low- and moderate-income households. The NKWSD will extend 20.3 miles of 8" water lines, with all appurtenances, and 75 fire hydrants to service the 436 new residential customers along six roads/areas: Staffordsburg Road, Spillman Road, Rector Road, Hempfling road, US 25/ Green Road, and Madison Pike (KY 17) with all appurtenances. Funding for the project is from the proposed Community Development Block Grant program in conjunction with Rural Development (RD) funds and local contributions.

In July 1996, the Public Service Commission approved Kenton & Campbell Counties' water districts to combine as the Northern Kentucky Water Service District, effective January 1, 1997. The Northern Kentucky Water Service District is a rural water district, governed by the Public Service Commission, coping with rapid population growth within Northern Kentucky and has constructed its water systems to handle the present and anticipated demands. The proposed project is located in the southwest portion of Kenton County and is classified as semi-urban. Construction standards and user fees differing from those of rural areas are applied in order to allow the Water Service District to undertake construction economically; reducing the need for upgrades on line size, reducing the cost of maintenance and significantly improving reliability. Presently, there are cast iron water lines in place that have served the district for over 100 years.

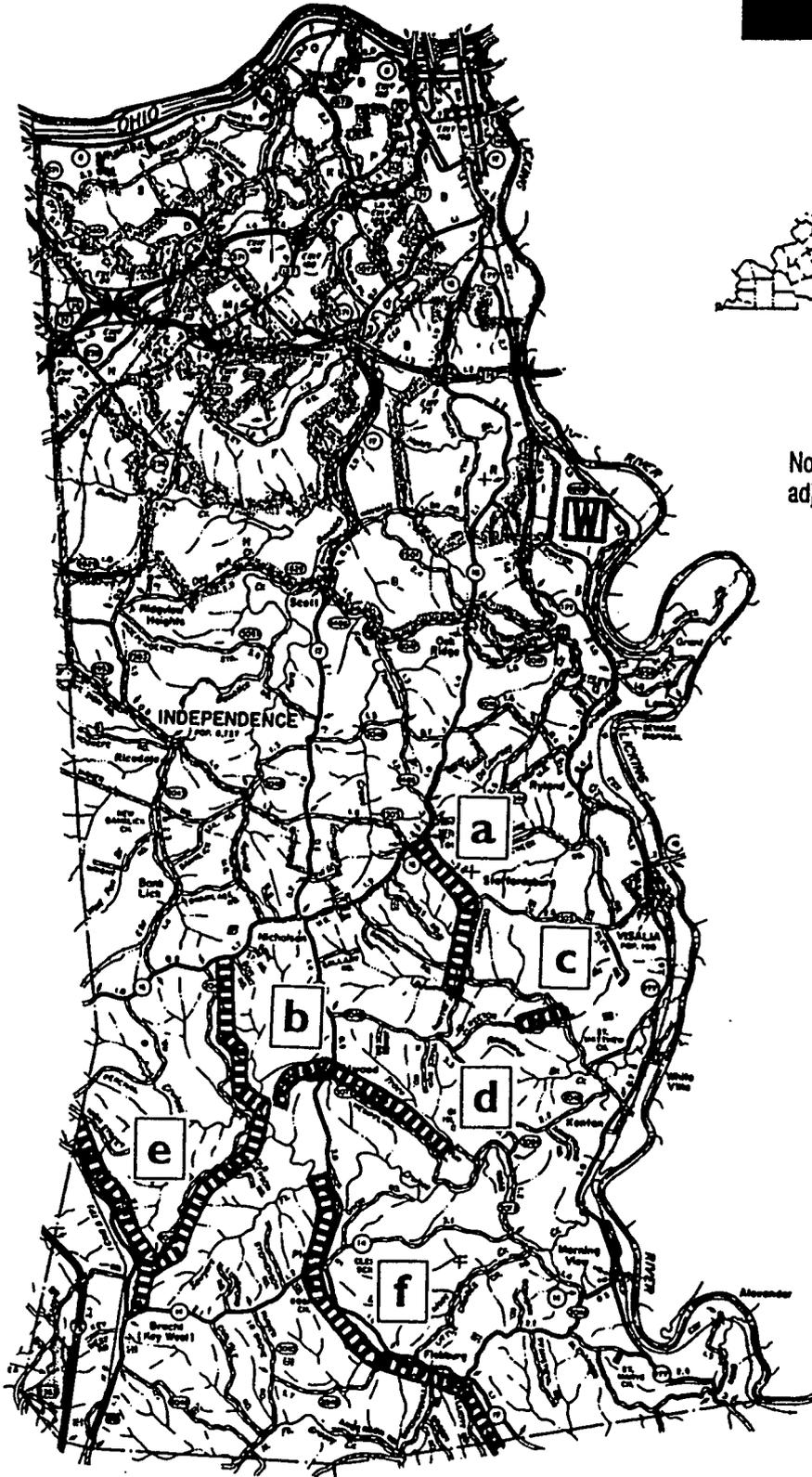
The six roads/areas to be served rely on cisterns for their water supply and hauled water costs them about \$80 a month for approximately 4,000 gallons (\$40 per load, with an average of 2 loads per month); each load is approximately 2,000 gallons. Within the past year, the rates have increased with only 2 major haulers supplying water to the area. Groundwater is not used to any significant degree in this area due to the poor characteristics of the area soils in treating septic discharges. Although people consider cisterns safer than using wells, where septic systems could contaminate groundwater, information from the Northern Kentucky District Health Department indicates that water samples collected from cisterns in their service area have had a standard contamination rate of 50%.

To provide potable water to these six areas, the project will install 20.3 miles of 8" waterline into Staffordsburg Road, Spillman Road, Rector Road, Hempfling Road, US 25/Green Road, and Madison Pike with CDBG/RD funds. Additional Rural Development funds will be used to provide potable water to an over-income area (Martin Road); this is not part of the CDBG project. The project has been restructured, using the minimum requirements for fire hydrants and the estimate for the CDBG/RD project using cost estimates based on 8" waterline. The Water Service District will utilize conventional financing to fund the "upgrade" to 12" or 16" ductile iron piping or C-900 PVC which is more expensive "front-end" than other systems but reduces future maintenance and improves reliability.

Project Area



Note: Sewer plants located in adjoining counties.



Project Map

Northern KY Water Service District
Expansion Project-Subdistrict C
Kenton County, Kentucky

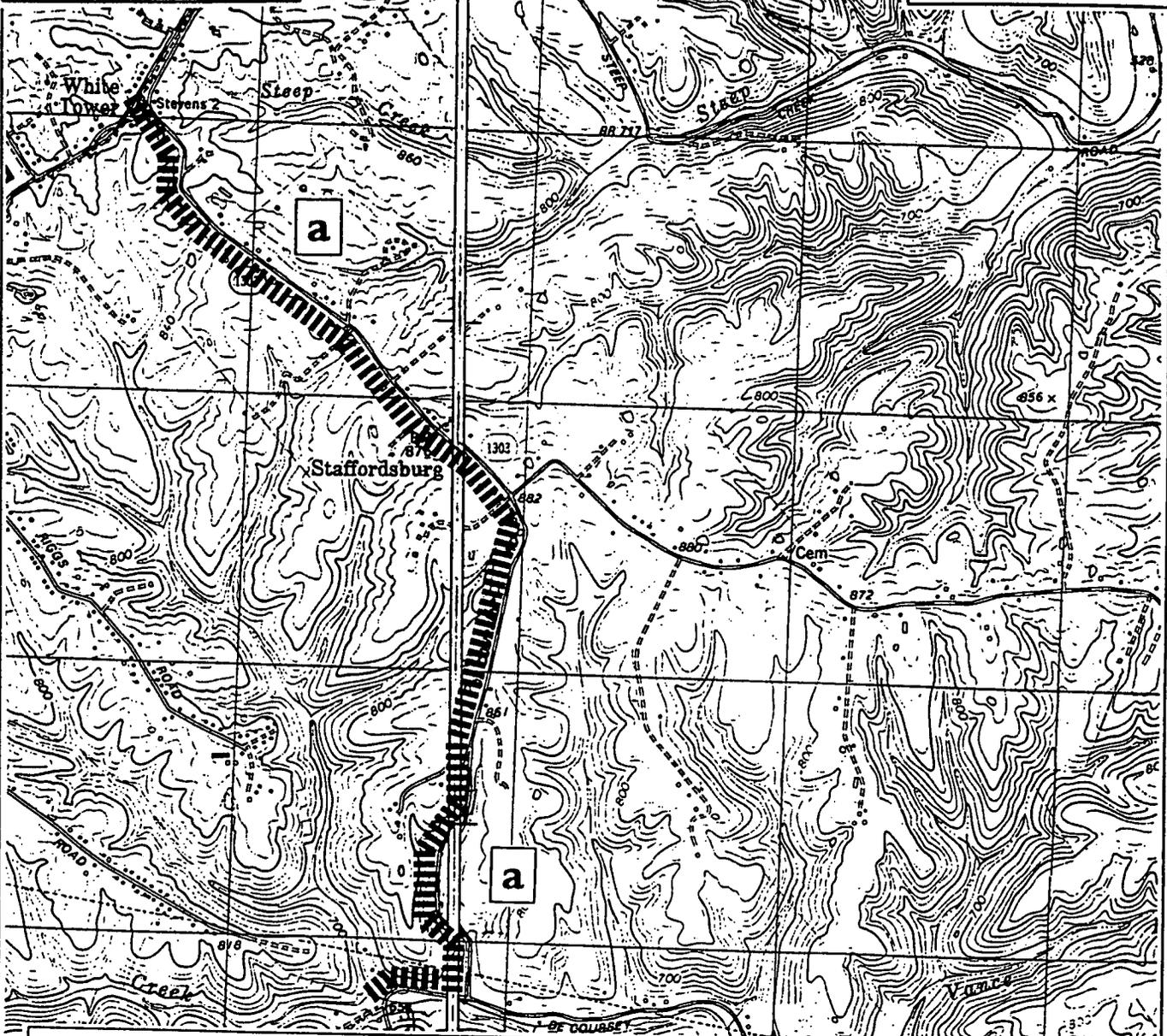


FEMA Community-Panel Number 210128
USGS 7.5 Topo/Specified Quads

-  Water Plant
-  Sewer Plant
-  Minority Concentrations

Independence Quad

Alexander Quad



Line ID	Road Name	Customers to be Served	Length (Miles)	Water Customers per Mile
a	Staffordsburg Road	61	2.4	25.4
b	Spillman Road	26	1	26
c	Rector Road	8	.5	16
d	Hemphling Road	39	2.1	18.6
e	US25/Green Road	147	8.6	17.1
f	Madison Pike (KY 17)	155	5.7	27.2



Legend
 ||||| New Water Lines

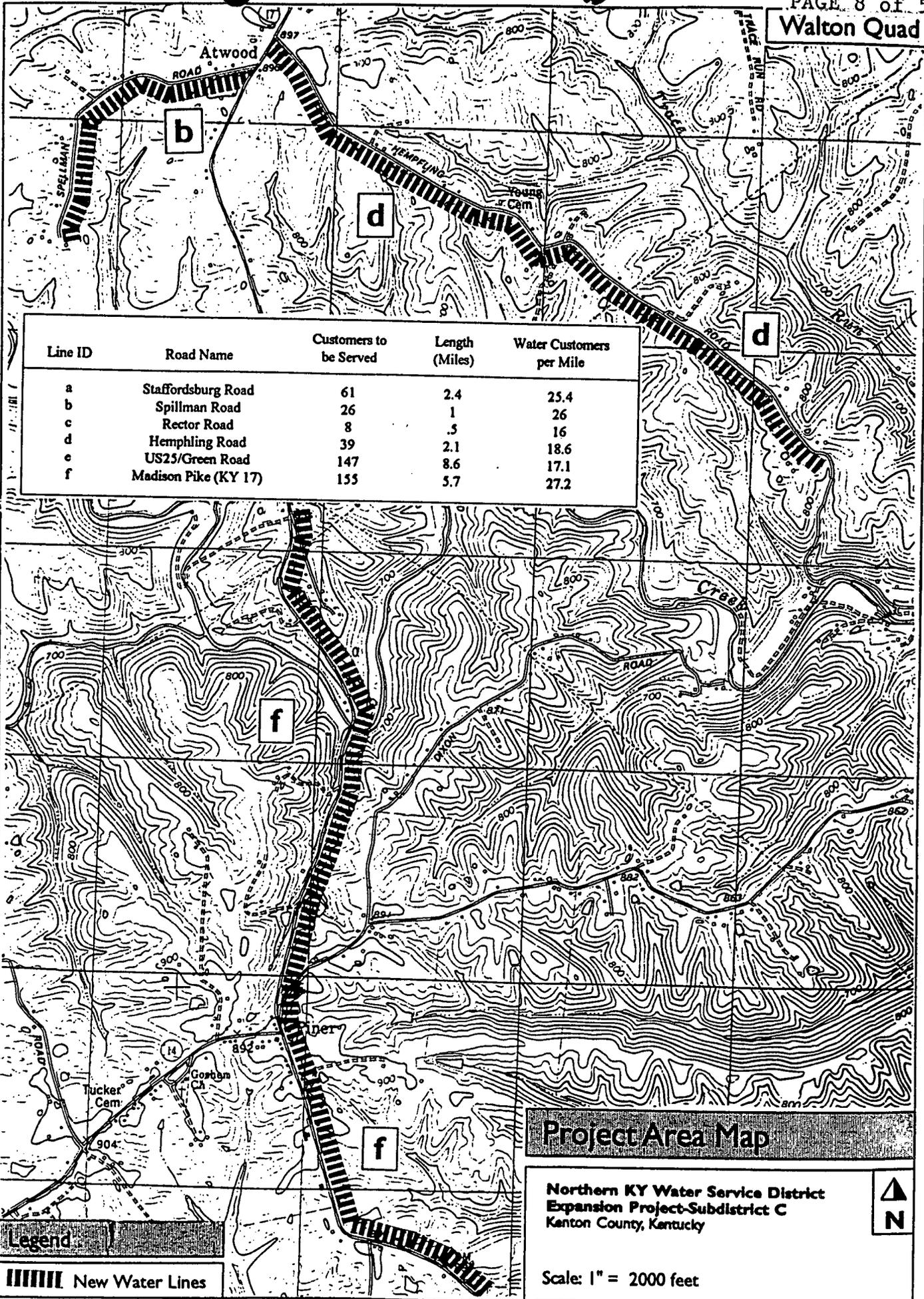
Project Area Map

Northern KY Water Service District
 Expansion Project-Subdistrict C
 Kenton County, Kentucky



Scale: 1" = 2000 feet

Walton Quad



Line ID	Road Name	Customers to be Served	Length (Miles)	Water Customers per Mile
a	Staffordsburg Road	61	2.4	25.4
b	Spillman Road	26	1	26
c	Rector Road	8	.5	16
d	Hemphling Road	39	2.1	18.6
e	US25/Green Road	147	8.6	17.1
f	Madison Pike (KY 17)	155	5.7	27.2

Project Area Map

Northern KY Water Service District
 Expansion Project-Subdistrict C
 Kanton County, Kentucky



Scale: 1" = 2000 feet

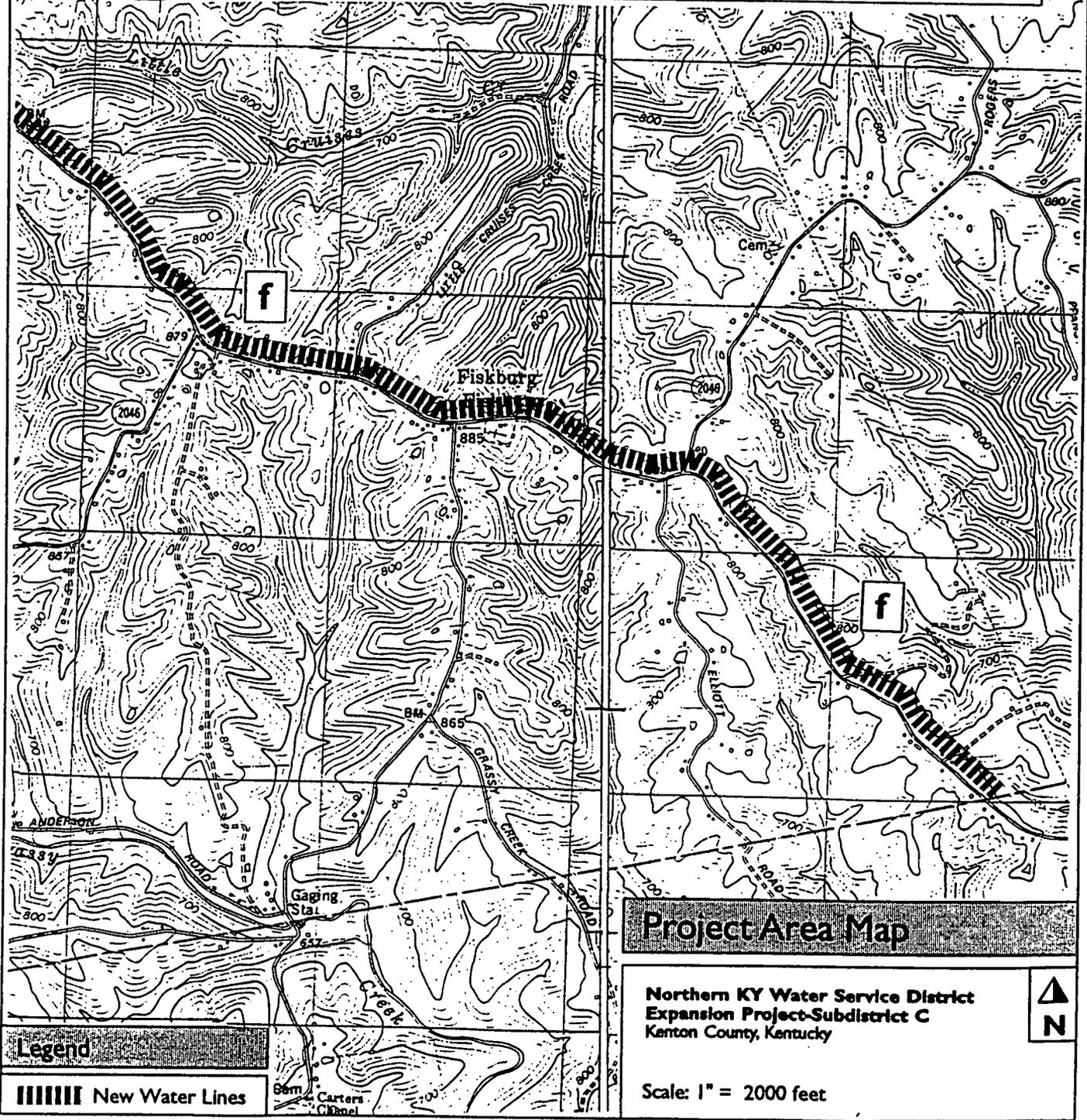
Legend

New Water Lines

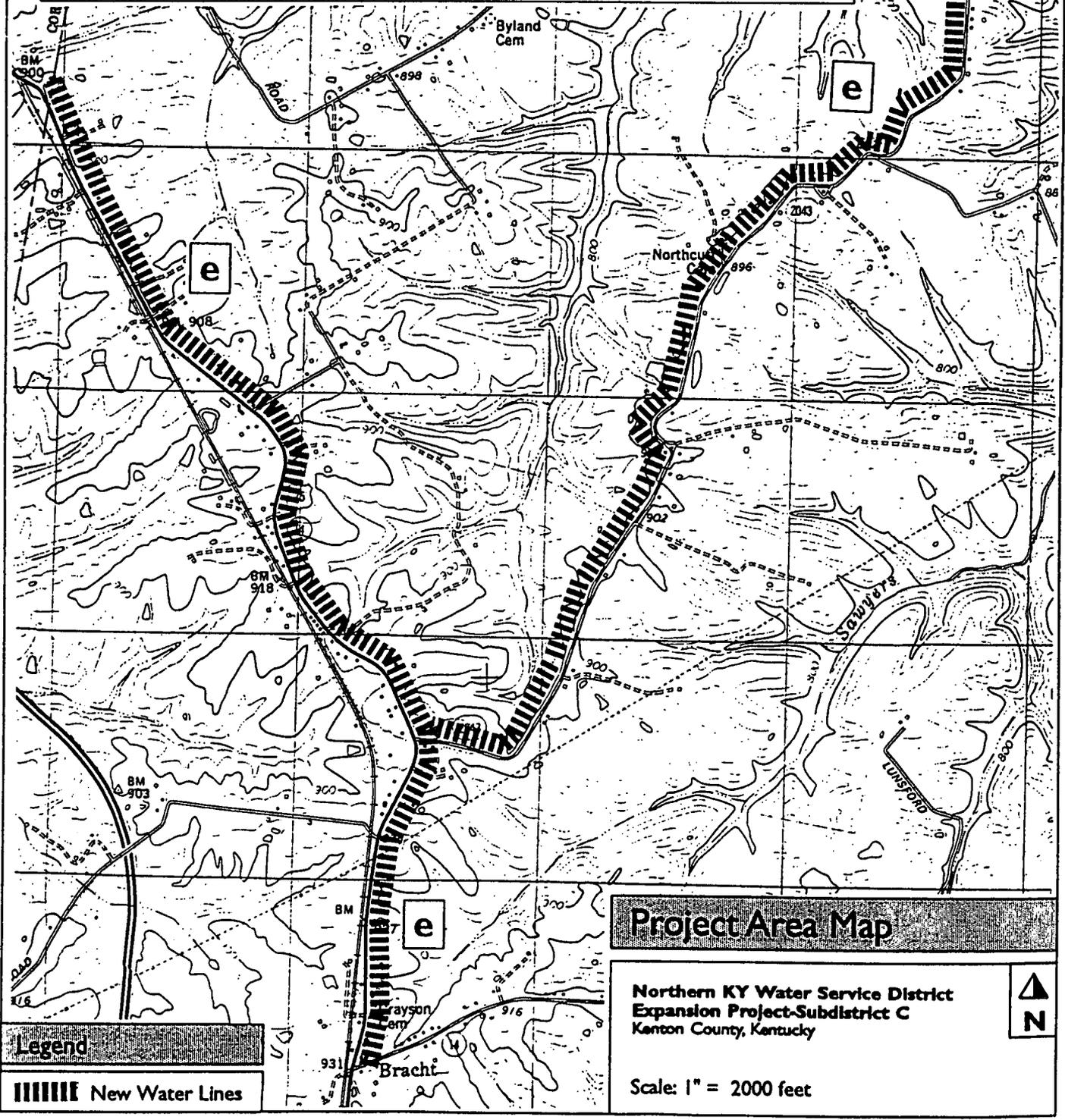
Walton Quad

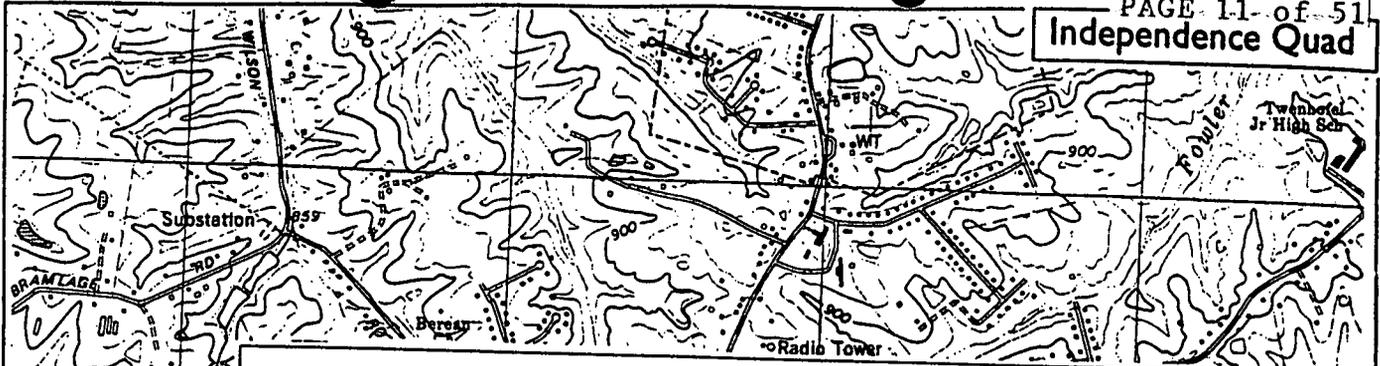
De Mossville Quad

Line ID	Road Name	Customers to be Served	Length (Miles)	Water Customers per Mile
a	Staffordsburg Road	61	2.4	25.4
b	Spillman Road	26	1	26
c	Rector Road	8	.5	16
d	Hemphling Road	39	2.1	18.6
e	US25/Green Road	147	8.6	17.1
f	Madison Pike (KY 17)	155	5.7	27.2

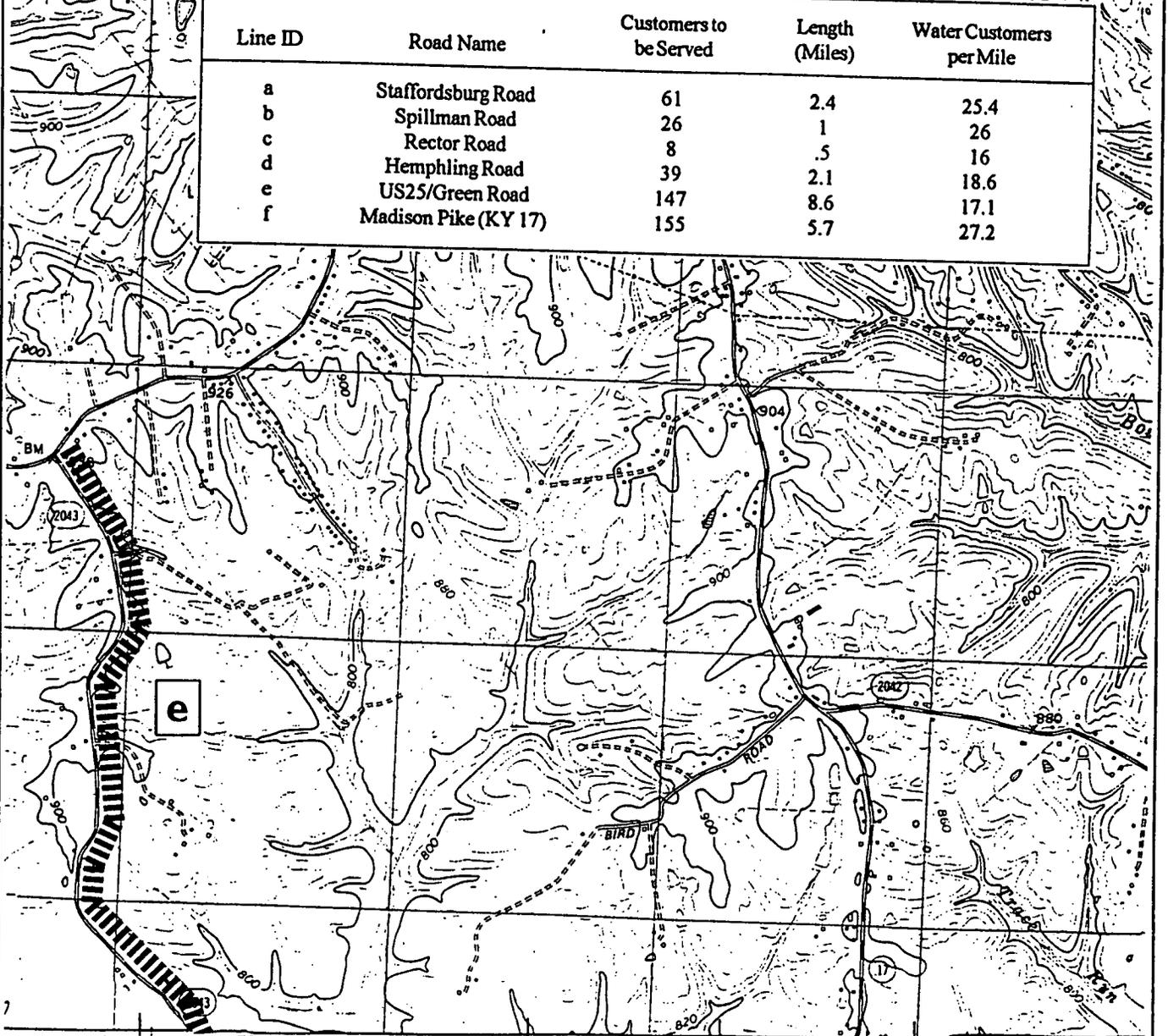


Line ID	Road Name	Customers to be Served	Length (Miles)	Water Customers per Mile
a	Staffordsburg Road	61	2.4	25.4
b	Spillman Road	26	1	26
c	Rector Road	8	.5	16
d	Hemphling Road	39	2.1	18.6
e	US25/Green Road	147	8.6	17.1
f	Madison Pike (KY 17)	155	5.7	27.2





Line ID	Road Name	Customers to be Served	Length (Miles)	Water Customers per Mile
a	Staffordsburg Road	61	2.4	25.4
b	Spillman Road	26	1	26
c	Rector Road	8	.5	16
d	Hemphling Road	39	2.1	18.6
e	US25/Green Road	147	8.6	17.1
f	Madison Pike (KY 17)	155	5.7	27.2



711 (WALTON) 4081 / SE 712 713 32'30" PINER 3.2 MI. 19 MI. TP U.S. 27

SCALE 1:24 000

Project Area Map

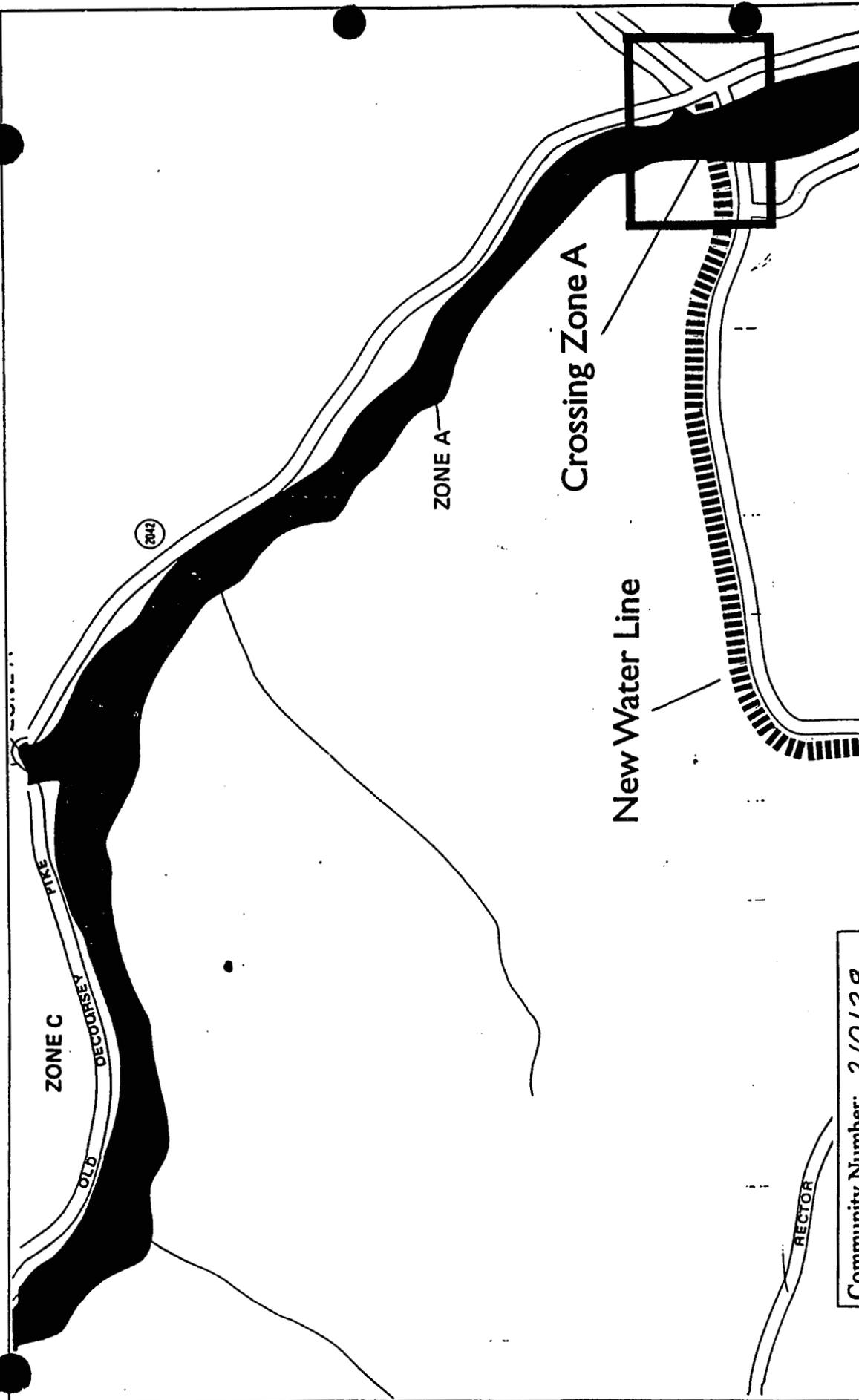
Legend

||||| New Water Lines

Northern KY Water Service District
 Expansion Project-Subdistrict C
 Kenton County, Kentucky



Scale: 1" = 2000 feet

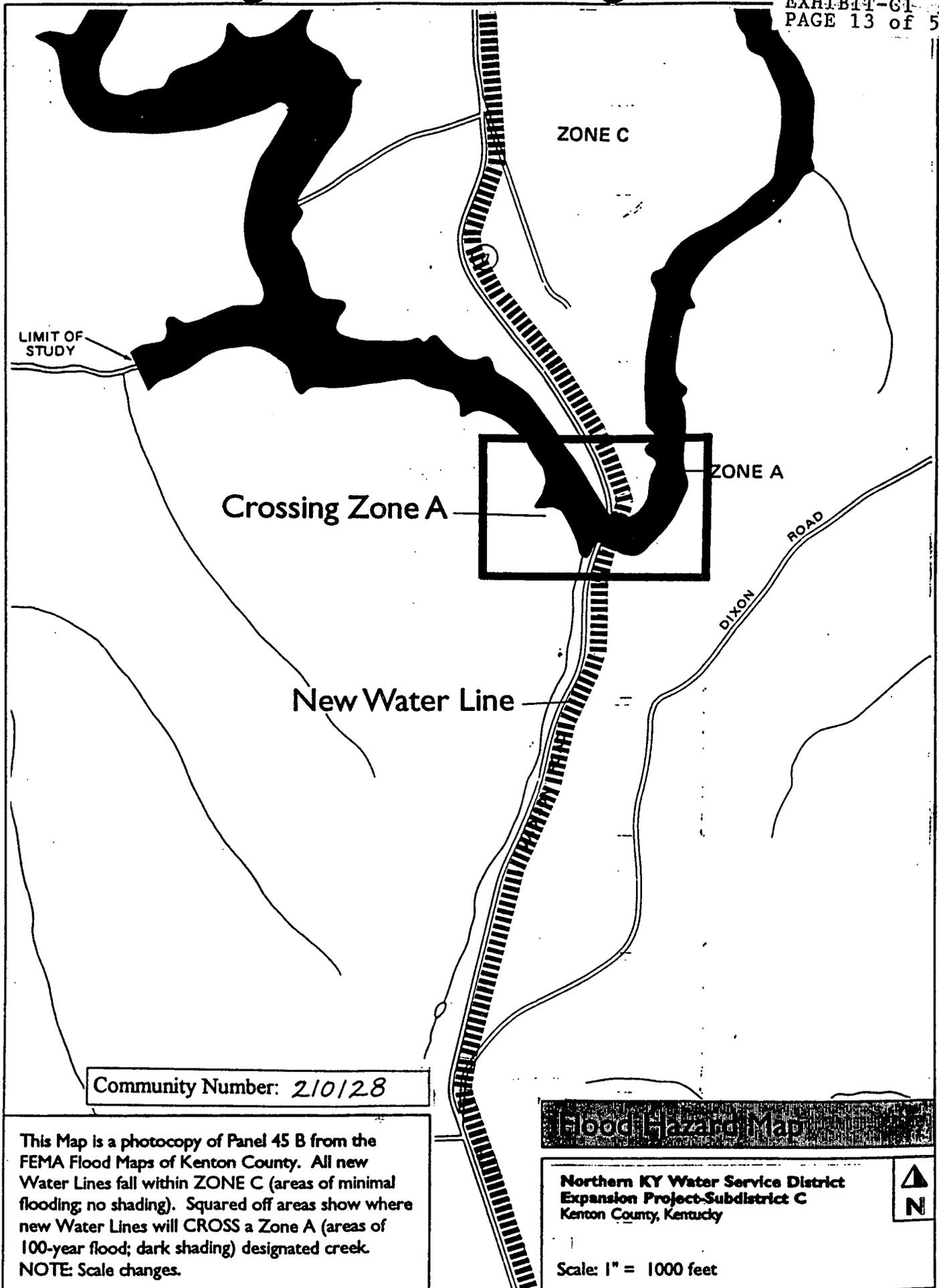


Community Number: 210128

This Map is a photocopy of Panels 36 B and 38 B from the FEMA Flood Maps of Kenton County. All new Water Lines fall within ZONE C (areas of minimal flooding; no shading). Squared off areas show where new Water Lines will CROSS a Zone A (areas of 100-year flood; dark shading) designated creek. NOTE: Scale changes.

Northern KY Water Service District
Expansion Project-Subdistrict C
Kenton County, Kentucky

Scale: 1" = 500 feet



Community Number: 210128

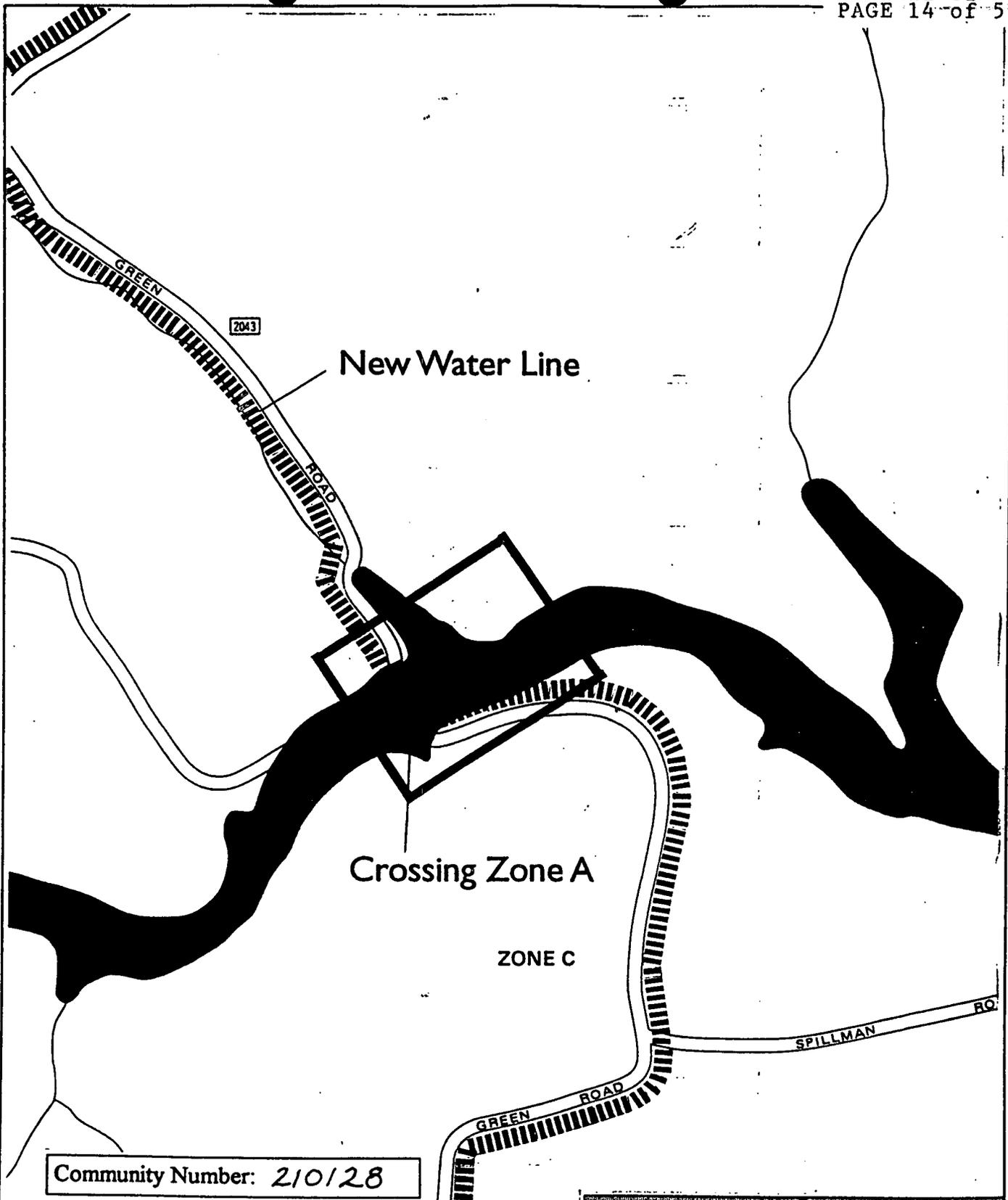
This Map is a photocopy of Panel 45 B from the FEMA Flood Maps of Kenton County. All new Water Lines fall within ZONE C (areas of minimal flooding; no shading). Squared off areas show where new Water Lines will CROSS a Zone A (areas of 100-year flood; dark shading) designated creek. NOTE: Scale changes.

Flood Hazard Map

Northern KY Water Service District
Expansion Project-Subdistrict C
Kenton County, Kentucky



Scale: 1" = 1000 feet



Community Number: 210128

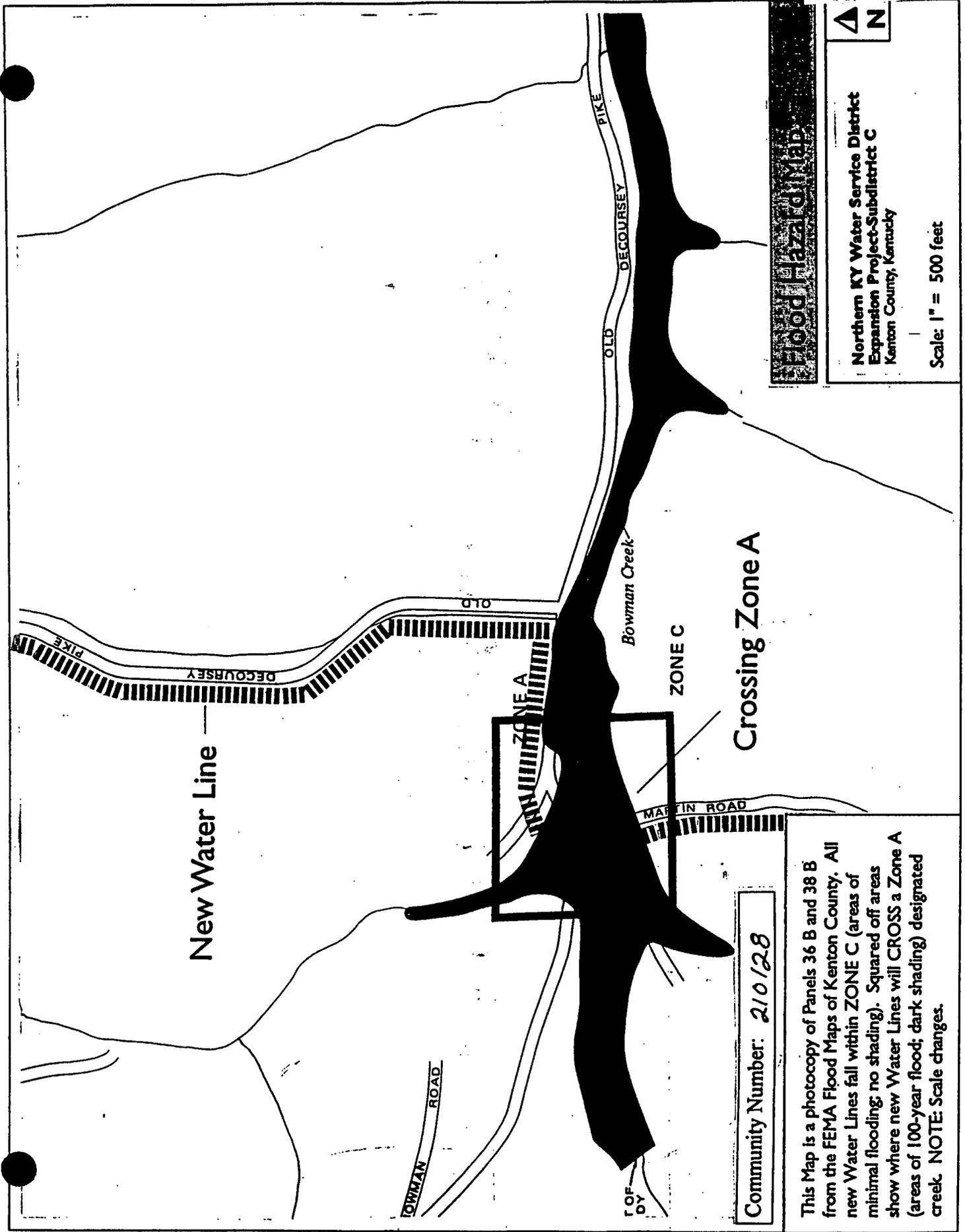
This Map is a photocopy of Panel 34 B from the FEMA Flood Maps of Kenton County. All new Water Lines fall within ZONE C (areas of minimal flooding; no shading). Squared off areas show where new Water Lines will CROSS a Zone A (areas of 100-year flood; dark shading) designated creek. NOTE: Scale changes.

Flood Hazard Map

Northern KY Water Service District
Expansion Project-Subdistrict C
Kenton County, Kentucky



Scale: 1" = 500 feet



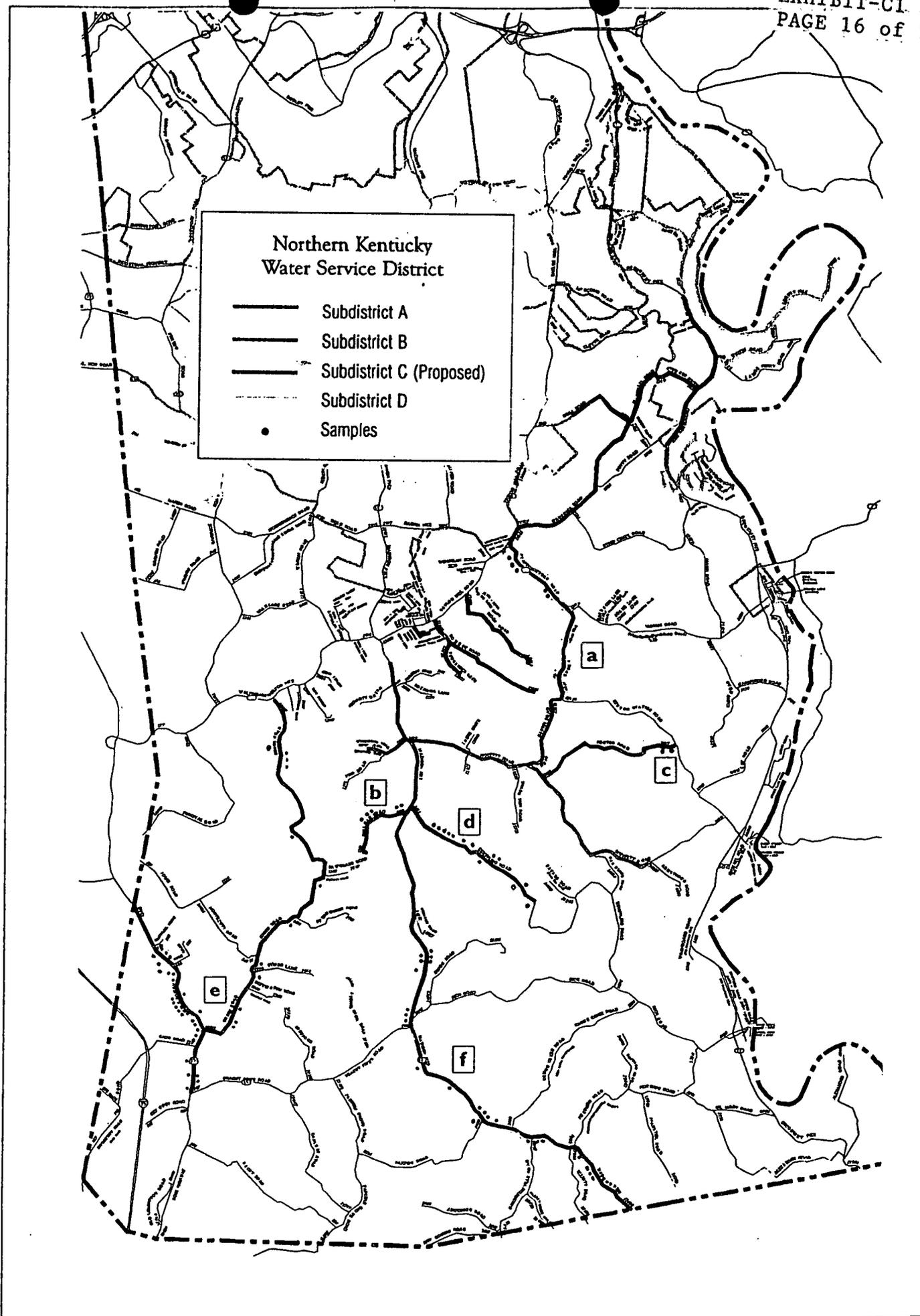
Flood Hazard Map

Northern KY Water Service District
Expansion Project-Subdistrict C
Kenton County, Kentucky

Scale: 1" = 500 feet

Community Number: 210128

This Map is a photocopy of Panels 36 B and 38 B from the FEMA Flood Maps of Kenton County. All new Water Lines fall within ZONE C (areas of minimal flooding; no shading). Squared off areas show where new Water Lines will CROSS a Zone A (areas of 100-year flood; dark shading) designated creek. NOTE: Scale changes.



KENTON COUNTY - SUBDISTRICT C
PROPOSED FUNDING - 8" TO 12" LINES

This budget expands the CDBG project budget to show additional RD funds (Martin Rd)
and the Upgrade of the lines to be financed by the NKWSD.

HUD	DLG	ACTIVITY CATEGORY	CDBG PROJECT - 8" LINES				8" Lines Martin Rd. R.D. FUNDS	12" LINES UPGRADE WD BOND ISSUE	TOTAL
			CDBG FUNDS	R.D. FUNDS	County Funds	Com. Funds & Tap-ons			
01	1)	ACQUISITION	\$0	\$0	\$0	\$0	\$0	\$0	\$0
04	2)	CLEARANCE	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	3)	RELOCATION							
	a)	owner							\$0
	b)	renter							\$0
08	c)	buisnesses							\$0
	d)	excess payments							\$0
	e)	temporary relocation							\$0
		TOTAL RELOCATION	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	4)	REHABILITATION							
15	a)	code enforcement							\$0
14A	b)	grants							\$0
14A	c)	forgivable-def. loans							\$0
14A	d)	leveraged loans							\$0
14C	e)	public housing mod.							\$0
14I	f)	lead based/lead hazard/abate							\$0
16A	g)	residential-historic preservation							\$0
16B	h)	non-residential-historic preserv.							\$0
		TOTAL REHAB.	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	5)	PUBLIC FACILITIES							
03F	a)	parks & rec. facilities							\$0
03K	b)	street improvements							\$0
	c)	water lines	\$925,000	\$1,502,345	\$50,000	\$176,500	\$76,395	\$1,462,655	\$4,192,895
03J	d)	water treatment facilities							\$0
	e)	sewer lines							\$0
	f)	sewage treatment fac.							\$0
03I	g)	flood & drainage fac.							\$0
	h)	engineering design		\$191,077			\$5,500	\$105,311	\$301,888
	i)	engineering inspection		\$111,461			\$3,209	\$61,432	\$176,102
	j)	other public facilities							
	1								
	2								
	3								
		TOTAL PUBLIC FAC.	\$925,000	\$1,804,883	\$50,000	\$176,500	\$85,104	\$1,629,398	\$4,494,385
25	6)	PUBLIC SERVICES	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	7)	OTHER							
12	a)	Legal Services/Bond Counsel		\$20,000				\$0	\$20,000
	b)	Interim Financing		\$120,000				\$0	\$120,000
	c)								\$0
		TOTAL OTHER	\$0	\$140,000					\$140,000
	8)	SUBTOTAL	\$925,000	\$1,944,883	\$50,000	\$176,500	\$85,104	\$1,629,398	\$4,634,385
20	9)	PLANNING	\$9,500						\$9,500
21A	10)	ADMINISTRATION	\$40,000						\$40,000
22	11)	CONTINGENCIES	\$25,500	\$185,176				\$191,614	\$402,290
	12)	TOTAL PROJECT COSTS	\$1,000,000	\$2,130,059	\$50,000	\$176,500	\$85,104	\$1,821,012	\$5,262,875

TOTAL CDBG/RD PROJECT: \$3,366,659

Kenton County/Northern Kentucky Water Service District
 Subdistrict C Water Line Extension Project

Project Cost Act. No. Activity	CDBG/RD PROJECT				PROJECT UPGRADE		Total
	CDBG (8")	RD (8")	Kenton Co. Tap-ons	Com. Funds	RD-Martin Rd. WD Bond Issue	Upgrades	
05c Waterlines:							
- Staffordsburg	\$100,000	\$223,100				\$175,360	\$498,460
- Spillman	\$90,000	\$42,905				\$0	\$132,905
- Rector	\$25,000	\$45,695				\$0	\$70,695
- Hempfling	\$160,000	\$100,720				\$0	\$260,720
- Madison Pike	\$200,000	\$420,040		\$176,500		\$624,950	\$1,421,490
- US 25/Green	\$350,000	\$669,885	\$50,000			\$662,345	\$1,732,230
Subtotal:	\$925,000	\$1,502,345	\$50,000	\$176,500	\$76,395	\$1,462,655	\$4,192,895
5h Engineering Design @ 7.2%		\$191,077			\$5,500	\$105,311	\$301,888
Engineering Inspection (Const. Ser. @ 4.2%)		\$111,461			\$3,209	\$61,432	\$176,102
Subtotal	\$0	\$302,538	\$0	\$0	\$8,709	\$166,743	\$477,990
07a Legal Services/Bond Counsel		\$20,000					\$20,000
07b Interim Financing		\$120,000					\$120,000
Subtotal	\$0	\$140,000					\$140,000
9 Planning	\$9,500						\$9,500
10 Administration	\$40,000						\$40,000
11 Contingencies	\$25,500	\$185,176					\$402,290
Total Project Costs:	\$1,000,000	\$2,130,059	\$50,000	\$176,500	\$85,104	\$1,821,012	\$5,262,675
Project Funding							
Community Development Block Grant	\$1,000,000						
Rural Development	\$2,215,163						
CDBG/RD Portion		\$2,130,059					
Martin Road Portion		\$ 85,104					
Kenton County Fiscal Court	\$50,000						
Community Fund Raising	\$10,000						
Tap-on Fees (OI & Com: 222 @ \$750)	\$166,500						
KCWS #1 Bond Issue	\$1,821,012						
Total Project Funding:	\$5,262,675						

27-Aug-97

KENTON COUNTY - SUBDISTRICT C - PROPOSED

STREET	DISTANCE (Miles)	TOTAL AVAIL. CUSTOMERS	CUSTOMER SIGN-UPS	PERMI. ESTIMATE	8" CONST. UPGRADE ESTIMATE	TOTAL CONST.
Ky 17 (Gleason to Co. Line)	5.70	155	155	27.19	\$796,540	\$1,421,490
US 25/Green Rd. (Walton to Ky 1)	8.60	147	147	17.09	\$1,069,885	\$1,732,230
Staffordsburg Rd. (Ky 16 to Marti)	2.40	61	61	25.42	\$323,100	\$498,460
Hemphling Road (First 2.1 miles)	2.10	39	39	18.57	\$260,720	\$260,720
Spillman Road	1.00	26	26	26.00	\$132,905	\$132,905
Rector Road (Subdist B to Ken.St)	0.50	8	8	16.00	\$70,695	\$70,695
	20.30	436	436	21.48	\$2,653,845	\$4,116,500
RD ONLY - Over-Income area						
Martin Rd. (Subdist B to Ken St.)	0.60	8	8	13.33	\$76,395	\$76,395
TOTALS	20.90	444	444	21.24	\$2,730,240	\$4,192,895

Cost Estimate:	Source of Funds:
Construction	Community Development Block Grant
Engineering @ 11.4%	Tap-on fees (222 Ol & Com @ \$750)
Planning & Administration	Community Fund Raising
Interim financing	Kenton County Cash
Legal	Rural Development Loan
Contingencies (10%)	Upgrades (KCWSD #1 Bond Issue)
\$4,192,895.00	\$1,000,000
\$477,990.00	\$166,500
\$49,500.00	\$10,000
\$120,000.00	\$50,000
\$20,000.00	\$2,215,163*
\$402,290.00	\$1,821,012
\$5,262,675.00	\$5,262,675

*RD Loan on file at \$2,999,999; to be updated upon CDBG determination



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CONSULTING ENGINEERS & SURVEYORS

488 ERLANGER ROAD
ERLANGER, KENTUCKY 41018
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KY. REG. NO. 6880
KY. LAND SURVEYOR NO. 797

WILLIAM R. VIOX, P.E.
KY. REG. NO. 9209
KY. LAND SURVEYOR NO. 1781

Public Facilities
Southern Kenton County Water Lines
Detailed Preliminary Cost Estimate
Sub-District C

<u>Street</u>	<u>Estimated Construction Cost</u>
1) Ky. 17 (Gleason to County Line)	\$ 796,540.00
2) Green Road	\$ 694,915.00
US 25 (Walton to Ky 14)	\$ 374,970.00
3) Staffordsburg Road [Old Decoursey] (Ky 16 to Martin Road)	\$ 323,100.00
4) Hemphling Road (First 2.1 Miles)	\$ 260,720.00
5) Spillman Road	\$ 132,905.00
6) Rector Road (Subdistrict B to Kenton Station)	\$ <u>70,695.00</u>
	\$ 2,653,845.00



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Sub-District "C"

Madison Pike (KY 17)	Quantity		Unit Price	Total
Gleason To County Line				
a. 8" C-900 Pipe and Fittings	23,900	LF	15.50	370,450.00
b. 8" X 8" X 6" Ductile Iron Anch. Tees & Blocks	48	EA	230.00	11,040.00
c. 8" X 8" X 8" Ductile Iron Tees & Blocks	8	EA	250.00	2,000.00
d. 8" C.I. Pipe Plugs	10	EA	200.00	2,000.00
e. 8" C.I. Resilient Seated Gate Valves & Boxes	40	EA	525.00	21,000.00
f. F.H. Assembly, Incl. 6" D.I. Resilient Seated Gate Valve & Valve Box, 6" D.I. Anchor Pipe, F.H. Blocking & Necessary Extensions	36	EA	1425.00	51,300.00
g. Street & Drive Restoration	670	SY	25.00	16,750.00
h. Service Connection w/Meter	155	EA	750.00	116,250.00
i. Controlled Density Fill	450	CY	45.00	20,250.00
j. 8" DIP Class 52 Pipe & Fittings W/ Polywrap	6000	LF	18.00	108,000.00
k. 8" DI Resilient Seated Gate Valves & Boxes (250 PSI)	4	EA	725.00	2,900.00
l. F.H. Assembly, Incl. 6" D.I. Resilient Seated Gate Valve & Valve Box, 6" D.I. Anchor Pipe, F.H., Blocking & Necessary Extensions (250 PSI)	10	EA	1,975.00	19,750.00
m. Concrete Encasement	200	LF	50.00	10,000.00

	Quantity	Unit Price	Total
n. Restoration General	29,900	LF 1.50	<u>44,850.00</u>
	Sub-Total	\$	796,540.00

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	Quantity		Unit Price	Total
Green Road				
a. 8" C-900 Pipe and Fittings	26,300	LF	15.50	407,650.00
b. 8" X 8" X 6" Ductile Iron Anch. Tees & Blocks	48	EA	230.00	11,040.00
c. 8" X 8" X 8" Ductile Iron Tees & Blocks	4	EA	250.00	1,000.00
d. 8" C.I. Pipe Plugs	4	EA	200.00	800.00
e. 8" C.I. Resilient Seated Gate Valves & Boxes	30	EA	525.00	15,750.00
f. F.H. Assembly, Incl. 6" D.I. Resilient Seated Gate Valve & Valve Box, 6" D.I. Anchor Pipe, F.H. Blocking & Necessary Extensions	42	EA	1425.00	59,850.00
g. Street & Drive Restoration	400	SY	25.00	10,000.00
h. Service Connection w/Meter	75	EA	750.00	56,250.00
i. 8" DIP Class 52 Pipe & Fittings W/ Polywrap	3,800	LF	18.00	68,400.00
j. 8" DI Resilient Seated Gate Valves & Boxes (250 PSI)	3	EA	725.00	2,175.00
k. F.H. Assembly, Incl. 6" D.I. Resilient Seated Gate Valve & Valve Box, 6" D.I. Anchor Pipe, F.H., Blocking & Necessary Extensions (250 PSI)	6	EA	1,975.00	11,850.00
l. Concrete Encasement	100	LF	50.00	5,000.00
m. Restoration General	30,100	LF	1.50	<u>45,150.00</u>
	Sub-Total		\$	694,915.00

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Sub-District "C"

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	Quantity		Unit Price	Total
U.S. 25 (Walton) To Ky. 14)				
a. 8" C-900 Pipe and Fittings	15,000	LF	15.50	232,500.00
b. 8" X 8" X 6" Ductile Iron Anch. Tees & Blocks	24	EA	230.00	5,520.00
c. 8" X 8" X 8" Ductile Iron Tees & Blocks	3	EA	250.00	750.00
d. 8" C.I. Pipe Plugs	3	EA	200.00	600.00
e. 8" C.I. Resilient Seated Gate Valves & Boxes	16	EA	525.00	8,400.00
f. F.H. Assembly, Incl. 6" D.I. Resilient Seated Gate Valve & Valve Box, 6" D.I. Anchor Pipe, F.H. Blocking & Necessary Extensions	24	EA	1425.00	34,200.00
g. Street & Drive Restoration	300	SY	25.00	7,500.00
h. Service Connection w/Meter	72	EA	750.00	54,000.00
i. Control Density Fill	200	LF	45.00	9,000.00
j. Restoration General	15,000	LF	1.50	<u>22,500.00</u>
	Sub-Total		\$	374,970.00

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Public Facilities
Southern Kenton County Water Lines
Detailed Preliminary Cost Estimate
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	Quantity		Unit Price	Total
Staffordsburg Road				
(Old Decoursey)				
Ky. 16 To Martin Road				
a. 8" C-900 Pipe and Fittings	10,000	LF	15.50	155,000.00
b. 8" X 8" X 6" Ductile Iron Anch. Tees & Blocks	20	EA	230.00	4,600.00
c. 8" X 8" X 8" Ductile Iron Tees & Blocks	2	EA	250.00	500.00
d. 8" C.I. Pipe Plugs	2	EA	200.00	400.00
e. 8" C.I. Resilient Seated Gate Valves & Boxes	8	EA	525.00	4,200.00
f. F.H. Assembly, Incl. 6" D.I. Resilient Seated Gate Valve & Valve Box, 6" D.I. Anchor Pipe, F.H. Blocking & Necessary Extensions	16	EA	1425.00	22,800.00
g. Street & Drive Restoration	300	SY	25.00	7,500.00
h. Service Connection w/Meter	61	EA	750.00	45,750.00
i. 8" DIP Class 52 Pipe & Fittings W/ Polywrap	2,900	LF	18.00	52,200.00
j. 8" DI Resilient Seated Gate Valves & Boxes (250 PSI)	4	EA	725.00	2,900.00
k. F.H. Assembly, Incl. 6" D.I. Resilient Seated Gate Valve & Valve Box, 6" D.I. Anchor Pipe, F.H., Blocking & Necessary Extensions (250 PSI)	4	EA	1,975.00	7,900.00

	Quantity		Unit Price	Total
1. Restoration General	12,900	LF	1.50	<u>19,350.00</u>
	Sub-Total		\$	323,100.00

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Public Facilities
Southern Kenton County Water Lines
Detailed Preliminary Cost Estimate
Sub-District "C"

	Quantity		Unit Price	Total
Hemphling Road				
(First 2.1 Miles)				
a. 8" C-900 Pipe and Fittings	11,090	LF	15.50	171,895.00
b. 8" X 8" X 6" Ductile Iron Anch. Tees & Blocks	18	EA	230.00	4,140.00
c. 8" X 8" X 8" Ductile Iron Tees & Blocks	1	EA	250.00	250.00
d. 8" C.I. Pipe Plugs	1	EA	150.00	150.00
e. 8" C.I. Resilient Seated Gate Valves & Boxes	10	EA	525.00	5,250.00
f. F.H. Assembly, Incl. 6" D.I. Resilient Seated Gate Valve & Valve Box, 6" D.I. Anchor Pipe, F.H. Blocking & Necessary Extensions	18	EA	1425.00	25,650.00
g. Street & Drive Restoration	300	SY	25.00	7,500.00
h. Service Connection w/Meter	39	EA	750.00	29,250.00
i. Restoration General	11,090	LF	1.50	<u>16,635.00</u>
	Sub-Total		\$	260,720.00

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Southern Kenton County Water Lines
Detailed Preliminary Cost Estimate
Sub-District "C"

	Quantity		Unit Price	Total
Spillman Road				
a. 8" C-900 Pipe and Fittings	5,280	LF	15.50	81,840.00
b. 8" X 8" X 6" Ductile Iron Anch. Tees & Blocks	9	EA	230.00	2,070.00
c. 8" X 8" X 8" Ductile Iron Tees & Blocks	1	EA	250.00	250.00
d. 8" C.I. Pipe Plugs	1	EA	150.00	150.00
e. 8" C.I. Resilient Seated Gate Valves & Boxes	4	EA	525.00	2,100.00
f. F.H. Assembly, Incl. 6" D.I. Resilient Seated Gate Valve & Valve Box, 6" D.I. Anchor Pipe, F.H. Blocking & Necessary Extensions	9	EA	1425.00	12,825.00
g. Street & Drive Restoration	250	SY	25.00	6,250.00
h. Service Connection w/Meter	26	EA	750.00	19,500.00
i. Restoration General	5,280	LF	1.50	<u>7,920.00</u>
	Sub-Total		\$	132,905.00

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Public Facilities
Southern Kenton County Water Lines
Detailed Preliminary Cost Estimate
Sub-District "C"

	Quantity		Unit Price	Total
Rector Road (Subdistrict B To Kenton Station)				
a. 8" DIP Class 52 Pipe & Fittings W/ Polywrap	2,600	LF	18.00	46,800.00
b. 8" X 8" X 6" Ductile Iron Anch. Tees & Blocks	4	EA	230.00	920.00
c. 8" X 8" X 8" Ductile Iron Tees & Blocks	1	EA	250.00	250.00
d. 8" C.I. Pipe Plugs	1	EA	150.00	150.00
e. 8" D.I. Resilient Seated Gate Valves & Boxes (250 PSI)	4	EA	725.00	2,900.00
f. F.H. Assembly, Incl. 6" D.I. Resilient Seated Gate Valve & Valve Box, 6" D.I. Anchor Pipe, F.H. Blocking & Necessary Extensions (250 PSI)	4	EA	1975.00	7,900.00
g. Street & Drive Restoration	75	SY	25.00	1,875.00
h. Service Connection w/Meter	8	EA	750.00	6,000.00
i. Restoration General	2,600	LF	1.50	<u>3,900.00</u>
	Sub-Total		\$	70,695.00

Rev. 4/4/96
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THE FOLLOWING PAGES ARE THE ENGINEER'S ESTIMATES FOR

1.)	MARTIN ROAD (RD Only)	\$ 85,104
2.)	COST OF THE UPGRADES	
	Madison Pike (KY 17)	
	16" Gleason Rd. To Ky. 14	\$302,365
	12" Ky. 14 to County line	\$322,585
	Green Road (to 12")	\$433,030
	U.S.25 (to 12")	\$229,315
	Staffordsburg Road (to 12")	\$175,360



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Southern Kenton County Water Lines
Detailed Preliminary Cost Estimate
Sub-District "C"

	Quantity		Unit Price	Total
Martin Road (Subdistrict B To Staffordsburg Road)				
a. 8" DIP Class 52 Pipe & Fittings W/ Polywrap	2,450	LF	18.00	44,100.00
b. 8" X 8" X 6" Ductile Iron Anch. Tees & Blocks	4	EA	230.00	920.00
c. 8" X 8" X 8" Ductile Iron Tees & Blocks	2	EA	250.00	500.00
d. 8" C.I. Pipe Plugs	2	EA	200.00	400.00
e. 8" D.I. Resilient Seated Gate Valves & Boxes (250 PSI)	4	EA	725.00	2,900.00
f. F.H. Assembly, Incl. 6" D.I. Resilient Seated Gate Valve & Valve Box, 6" D.I. Anchor Pipe, F.H. Blocking & Necessary Extensions (250 PSI)	4	EA	1975.00	7,900.00
g. Street & Drive Restoration	100	SY	25.00	2,500.00
h. Service Connection w/Meter	8	EA	750.00	6,000.00
i. Concrete Encasement	150	LF	50.00	7,500.00
j. Restoration General	2,450	LF	1.50	<u>3,675.00</u>
	Sub-Total		\$	76,395.00

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Public Facilities
Southern Kenton County Water Lines
Detailed Preliminary Cost Estimate
Sub-District "C"

<u>Street</u>	<u>Estimated Construction Cost</u>
1a) Ky. 17 (Cost to upgrade to 16" Gleason to Ky. 14)	\$ 302,365.00
1b) Ky 17 (Cost to upgrade to 12" Ky 14 to County Line	\$ 322,585.00
2) Green Road (Cost to upgrade to 12")	\$ 433,030.00
3) US 25 (Cost to upgrade to 12")	\$,229,315.00
4) Staffordsburg Rd. (Cost to upgrade to 12")	\$ <u>175,360.00</u>
Total	\$ 1,462,655.00

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Public Facilities
Southern Kenton County Water Lines
Detailed Preliminary Cost Estimate
Sub-District "C"

	Quantity		Unit Price	Total
16" Upgrade				
1a) Gleason To				
Ky. 14				
a. 16" Ductile-Iron				
Pipe Cl. 52 &				
Fittings W/	6,000	LF	27.00	162,000.00
Polywrap	2,700	LF	34.50	93,150.00
b. 16" X 16" X 6"				
Ductile Iron Anch.				
Tees & Blocks	17	EA	620.00	10,540.00
c. 16" X 16" X 8"				
Ductile Iron				
Tees & Blocks	2	EA	700.00	1,400.00
d. 16" C.I. Pipe Plugs	1	EA	450.00	450.00
e. 16" Ductile-Iron				
Butterfly Valves				
& Boxes	11	EA	1975.00	21,725.00
f. 16" D.I. Butterfly				
Valves & Boxes				
(250 PSI)	3	EA	3275.00	<u>13,100.00</u>
	Sub-Total		\$	302,365.00

Rev. 6/23/95
Rev. 7/7/95



VIOX & VIOX, P.S.C.
CONSULTING ENGINEERS & SURVEYORS
488 ERLANGER ROAD
ERLANGER, KENTUCKY 41018
PHONE: (808) 787 - 3293

JAMES H. VIOX, III, P.E.
KY. REG. NO. 6880
KY. LAND SURVEYOR NO. 797

WILLIAM R. VIOX, P.E.
KY. REG. NO. 9209
KY. LAND SURVEYOR NO. 1781

Public Facilities
Southern Kenton County Water Lines
Detailed Preliminary Cost Estimate
Sub-District "C"

	Quantity		Unit Price	Total
2b) Green Road				
(Upgrade To 12")				
a. 12" Ductile-Iron Pipe Cl. 52 & Fittings W/ Polywrap	26,300	LF	14.50	381,350.00
	3,800	LF	7.00	26,600.00
b. 12" X 12" X 6" Ductile Iron Anch. Tees & Blocks	64	EA	170.00	10,880.00
c. 12" X 12" X 8" Ductile Iron Tees & Blocks	4	EA	175.00	700.00
d. 12" C.I. Pipe Plugs	2	EA	100.00	200.00
e. 12" C.I. Resilient Seated Gate Valves & Boxes	25	EA	475.00	11,875.00
f. 12" D.I. Resilient Seated Gate Valves & Boxes (250 PSI)	3	EA	475.00	<u>1,425.00</u>
	Sub-Total		\$	433,030.00



VIOX & VIOX, P.S.C.

CONSULTING ENGINEERS & SURVEYORS

488 ERLANGER ROAD
ERLANGER, KENTUCKY 41018
PHONE: (606) 727 - 3283

JAMES H. VIOX, III, P.E.
KY. REG. NO. 6880
KY. LAND SURVEYOR NO. 797

WILLIAM R. VIOX, P.E.
KY. REG. NO. 9209
KY. LAND SURVEYOR NO. 1781

Public Facilities
Southern Kenton County Water Lines
Detailed Preliminary Cost Estimate
Sub-District "C"

	Quantity		Unit Price	Total
3b) Upgrade To 12" U.S. 25 (Walton To Ky. 14)				
a. 12" Ductile-Iron Pipe Cl. 52 & Fittings W/ Polywrap	15,000	LF	14.50	217,500.00
b. 12" X 12" X 6" Ductile Iron Anch. Tees & Blocks	32	EA	170.00	5,440.00
c. 12" X 12" X 8" Ductile Iron Tees & Blocks	3	EA	175.00	525.00
d. 12" C.I. Pipe Plugs	2	EA	75.00	150.00
e. 12" C.I. Resilient Seated Gate Valves & Boxes	12	EA	475.00	5,700.00
	Sub-Total		\$	229,315.00



VIOX & VIOX, P.S.C.

CONSULTING ENGINEERS & SURVEYORS
468 ERLANGER ROAD
ERLANGER, KENTUCKY 41018
PHONE: (808) 727 - 3283

N.K.W.S:D.
EXHIBIT-C1
PAGE 36 of 51

JAMES H. VIOX, III, P.E.
KY. REG. NO. 6880
KY. LAND SURVEYOR NO. 797

WILLIAM R. VIOX, P.E.
KY. REG. NO. 9209
KY. LAND SURVEYOR NO. 1781

Public Facilities
Southern Kenton County Water Lines
Detailed Preliminary Cost Estimate
Sub-District "C"

	Quantity		Unit Price	Total
4b) Upgrade To 12"				
Staffordsburg Rd				
a. 12" Ductile-Iron				
Pipe Cl. 52 &				
Fittings W/	2,900	LF	7.00	20,300.00
Polywrap	10,000	LF	14.50	145,000.00
b. 12" X 12" X 6"				
Ductile Iron Anch.				
Tees & Blocks	28	EA	170.00	4,760.00
c. 12" X 12" X 8"				
Ductile Iron				
Tees & Blocks	2	EA	175.00	350.00
d. 12" C.I. Pipe Plugs	2	EA	100.00	200.00
e. 12" C.I. Resilient				
Seated Gate Valves				
& Boxes	6	EA	475.00	2,850.00
f. 12" D.I. Resilient				
Seated Gate Valves				
Boxes (250 PSI)	4	EA	475.00	1,900.00
	Sub-Total			\$ 175,360.00

IV. PROJECT OVERVIEW

PROJECT NEED

1. When was plant and/or system which serves the proposed project originally constructed? Fort Thomas - 1936 and Taylor Mill - 1954 (plants are owned by Northern Kentucky Water Service District)

<u>List Major Improvements, if any</u>	<u>Year Completed</u>	<u>Funding Used</u>	<u>Approximate Cost</u>
<u>Ft. Thomas WTP Modifications</u>	<u>1981 & 1988</u>	<u>Bond Issue</u>	<u>\$ 9,000,000</u>
<u>Taylor Mill WTP Modifications</u>	<u>1964 & 1988</u>	<u>Bond Issue</u>	<u>\$ 6,000,000</u>
			<u>\$</u>

2. If water is being hauling, provide an estimate of (does not apply to bottled water):

a.	Number of households affected	<u>436</u>
b.	Cost per load	<u>\$ 40</u>
c.	Number of gallons per load	<u>2,000 avg.</u>
d.	Number of loads used per month	<u>2 avg.</u>
e.	Cost per 4,000 gallons	<u>\$ 80</u>

3. List areas within proposed project to be served (i.e. names of roads, communities, neighborhoods) as indicated on maps (Attach additional page if necessary, using same format).
Use corresponding area letters as needed for questions 4, 5, 6, 7, 8, and effectiveness question 5.

<u>Area</u>	<u>Road, Community or Neighborhood</u>	<u>Area</u>	<u>Road, Community or Neighborhood</u>
<u>a.</u>	<u>Staffordsburg Road</u>	<u>g.</u>	
<u>b.</u>	<u>Spillman Road</u>	<u>h.</u>	
<u>c.</u>	<u>Rector Road</u>	<u>i.</u>	
<u>d.</u>	<u>Hempfling Road</u>	<u>j.</u>	
<u>e.</u>	<u>US 25/Green Road</u>	<u>k.</u>	
<u>f.</u>	<u>Madison Pike (KY 17)</u>	<u>l.</u>	

4. List and briefly discuss problems or sickness and identify areas (Include reference to sources of documentation as listed under methodology) (Attach additional page if necessary, using same format):

<u>Area(s)</u>	<u>Type of Sickness or Problems *</u>	<u># of Cases</u>	<u>Documentation</u>
<u>a</u>	<u>stomach problems</u>	<u>3</u>	<u>resident survey</u>
<u>b</u>	<u>stomach problems</u>	<u>2</u>	<u>resident survey</u>
<u>c</u>	<u>stomach problems</u>	<u>1</u>	<u>resident survey</u>
<u>d</u>	<u>stomach problems</u>	<u>5</u>	<u>resident survey</u>
<u>e</u>	<u>stomach problems</u>	<u>19</u>	<u>resident survey</u>
<u>f</u>	<u>stomach problems</u>	<u>12</u>	<u>resident survey</u>
		<u>42 Total</u>	

* Resident Health Survey undertaken in June, 1996 & May -July, 1997 by Northern Ky. Water Service Dist.

**IV. PROJECT OVERVIEW
(continued)**

A. PROJECT NEED (continued)

5. Briefly describe areas with pressure problems and reference documentation as listed under methodology. (Examples: dates hydraulic studies were conducted and conclusions, frequency and duration of pressure problems, actions taken to date to correct problems, public comments/complaints.)

The area to be served by this project does not currently have public water service available; pressure problems are not applicable. The project has been sized appropriately to adequately serve the area and pressure. The NKWSD area is a very difficult area to service as pressure fluctuates as a result of the changes in topography from 450 ft elevation at the Ohio River to 500 ft. elevations in the valley and 900+ elevations on the ridges; a difference of 450 ft. which generates a pressure change of over 250 pounds. The pressure is the reason the NKWSD uses ductile iron in certain areas instead of PVC; the standard 150 class PVC rating is exceeded. Good engineering practices do not allow use of PVC with pressures of over 150 pounds.

6. Briefly discuss areas with I&I problems and reference documentation as listed under methodology. (Examples: dates studies were conducted and conclusions, actions taken to date to correct problems, flow data.)

Not Applicable

7. For water samples/tests, provide the following information and briefly discuss on the following page the level of contamination of water supply for each area (Attach additional pages as necessary using same format) :

Area	Type of Test Taken Within Last 3 Years	# of Tests Taken	# of Samples Contaminated	# of Well Tests	# of Cistern Tests	# of Spring Tests	# of Other Tests
a.	Coliform Plate	5	2	0	5	0	0
b.	Coliform Plate	5	5 (2*)	0	5	0	0
c.	Coliform Plate	2	2 (2*)	0	2	0	0
d.	Coliform Plate	13	10 (4*)	0	13	0	0
e.	Coliform Plate	38	27 (15*)	0	38	0	0
f.	Coliform Plate	23	19 (8*)	0	23	0	0
g.							
h.							
i.							
j.							
k.							
l.							
Total		86	65 (31*)	0	86	0	0

* number of samples testing positive for E.Coli

**IV. PROJECT OVERVIEW
(continued)**

PROJECT NEED (continued)

7. (continued) Briefly discuss level of contamination of water supply (Include type of contamination, etc.) for tests indicated above:

Random water tests were conducted on project area cisterns in July 1996 and July & August 1997, on behalf of the Northern Kentucky Water Service District. The total coliform membrane filtration tests revealed that 65 of the 86 tests (or 75.6%) were positive for total coliform which is an indicator that conditions are acceptable for pathogenic organisms to be present. Pathogenic organisms are "disease causing" which are capable of causing hepatitis, dysentery, diarrhea, and internal parasites. Of the 86 tests, 74 were tested for e.Coli and 31 or 42.9% of the 74 tested positive, indicating infiltration of fecal matter into these cisterns. Only 6 of the total 86 tests taken were determined to be "drinkable" water. The samples were collected randomly by staff of Will Linder and Associates and the Northern Kentucky Water Service District and tested at the lab of the Northern Kentucky Water Service District. The Northern Kentucky Water Service District is one of two State certified labs in the area; they maintain a State Bacteriological Analysis Certification (#00003).

Household surveys revealed that 42 of 348 (12%) of the households surveyed reported stomach problems over the past fourteen months, which could be directly linked to the same type of bacteria found in the cisterns. This number may be low as the majority of households drink bottled water.

8. Briefly discuss level of contamination in regard to sewage problems by area (Include source, type of problem, test results or studies conducted, etc.) for tests shown above:

According to conversations with the Northern Kentucky District Health Department (NKDHD), groundwater wells are not used by most households for fear of contamination from poorly operating/failing septic tanks. This is confirmed with only 4 households with wells reported by the surveys conducted on 348 households. However, improperly sealed, improperly maintained cisterns, and cisterns that have cracks can allow contaminated groundwater to flow into the cisterns as evidenced by the 31 positive e.Coli tests of the total 86 water samples (36%) taken in the past 14 months. The Northern Ky. District Health Dept. has stated a standard 50% contamination in cistern tests in their service area. There are no public sewers in this area and families must rely on septic systems; the only way to ensure safe, clean drinking water is to install public water lines or continue to utilize bottled water.

9. Identify current sanctions and attach copy(ies): **NOT APPLICABLE**

	<u>Date Imposed</u>	<u>Fines Levied to Date</u>	<u>Final Compliance Date</u>
Administrative Order	<i>n/a</i>		
Agreed Order	<i>n/a</i>	\$	
Tap-On Ban	<i>n/a</i>	\$	
Line Extension Ban	<i>n/a</i>	\$	
Others (Explain)		\$	
		\$	

A. PROJECT NEED (continued)

10. Briefly summarize other needs in the space provided. **Additional pages are not allowed.**

Description of Need:

The residents in the proposed area rely on cisterns for their water supply. The residents' cisterns are most often tied into the home guttering, but must also be filled by water hauled during dry weather or if the roof surface does not provide enough water to meet their demand. As evidenced by the household surveys where 96% of the households reported using cisterns, 3% used other sources such as bottled water, and only 1% used wells, groundwater is not normally used due to the probability of contamination from septic systems. The area soil is in the Eden and Cynthia soil associations, both of which have septic tank absorption fields classified as "severe" with little or no percolation; it allows it to perc, but does not allow the liquid to leach well. Groundwater in the area also has poor quality due to the high sulfur content, and there is insufficient quantity to meet household needs.

Water sampling on cisterns in Kenton County has been for coliform bacteria only. The results of sampling evidenced by the Northern Kentucky District Health Department during the past several years has yielded a standard of 50% contamination indicating the presence of coliform bacteria. In the 86 water samples taken by staff of Will Linder and Associates and the Northern Kentucky Water Service District over the past 14 months, 75.6% (65 of 86) showed contamination with 36% (31 of 86) tested positive for e.Coli bacteria. The tests were done by the Northern Kentucky Water Service District water lab, one of two State certified labs in the Northern Kentucky area; the other is Cardinal Lab. The tests were total coliform membrane filtration tests; an indicator test that conditions are right for pathogenic organisms to be present. Pathogenic organisms are disease causing organisms. With the testing done on the cistern water in the project area, the quality of the water in the cisterns is certainly doubtful. The e.Coli bacteria show evidence of contamination by sewage.

Another concern for these families is the quantity; having enough water to drink, cook, bathe, do laundry, and flushing toilets. Through discussions with the Northern Kentucky Water Service District, there are only 2 major haulers in the area (hauling 750,000 to 100,000 per day) with 3 others on a small scale; only 2 making "emergency" deliveries on the weekends. The cost of a load of water averages \$40 each load and contains an average of 2,000 gallons. Most families required an average of two loads each month per information from the haulers. In these instances, water bills are \$80 per month for water which, after a short time period, can test positive for coliform bacteria as evidenced by the water samples listed above.

Inadequate fire protection in the area results in an increased cost for homeowners insurance. The insurance premium for a \$50,000 brick home in the project area would be \$367/year; with adequate water service and installation of fire hydrants, the fire department class would upgrade and the insurance premium would decrease to approximately \$189 (50% reduction). This project would provide a much needed reduction in homeowners insurance costs to the LMI households in the area which alone could offset as much as 60% of the \$24.90 surcharge ($\$367 - \$189 = \178 savings $\$178 / 12$ months = $\$14.83$ which is 60% of the \$24.90 surcharge).

Also a factor in the need of the project is the growth the area is anticipating in the coming years. The Kentucky State Data Center states that from 1990 to 1995, the state population increased by 173,000 persons or 5%. During the entire previous decade, Kentucky grew demographically by less than 1%. Much of the growth has been located in the peripheral counties of the Louisville, Lexington, and Northern Kentucky metropolitan areas. These suburban areas attracted newcomers



OFFICE OF THE GOVERNOR
DEPARTMENT FOR LOCAL GOVERNMENT
FRANKFORT, KENTUCKY 40601-8204
September 4, 1997

PAUL E. PATTON
GOVERNOR

*State
Will
vonder
John*

BOB ARNOLD
COMMISSIONER

Mr. Will Linder
Will Linder & Associates
218 Swiss Hills
Berea, Kentucky 40403

RE: Kenton County Water Expansion Project, Subdistrict C
CFDA # 14.228
SAI #KY960715-0792

Dear Mr. Linder:

The Kentucky State Clearinghouse, which has been officially designated as the Commonwealth's Single Point of Contact (SPOC) pursuant to Presidential Executive Order 12372, is in receipt of your letter dated August 26, 1997 regarding an update for the above-referenced proposal. The State Clearinghouse has contacted the appropriate state agencies and determined the previous comments remain valid.

Should you need any further clarification, please feel free to contact me at 502-573-2382.

Sincerely,

A handwritten signature in cursive script, appearing to read "Ronald W. Cook".

Ronald W. Cook
Kentucky State Clearinghouse

Attachment

cc: Scott Kimmich

*Working
John P.*



OFFICE OF THE GOVERNOR
DEPARTMENT OF LOCAL GOVERNMENT
FRANKFORT, KENTUCKY 40601-8204

PAUL E. PATTON
GOVERNOR

BOB ARNOLD
COMMISSIONER

September 4, 1996

Mr. Will Linder
Will Linder & Associates
218 Swiss Hills
Berea, Kentucky 40403

RE: Kenton County Water Expansion Project, Subdistrict C
CFDA# 14.228
SAI#KY960715-0792

Dear Mr. Linder:

The Kentucky State Clearinghouse, which has been officially designated as the Commonwealth's Single Point of Contact (SPOC) pursuant to Presidential Executive Order 12372, has completed its evaluation of the above referenced proposal. The clearinghouse review of this proposal indicates there are no identifiable conflicts with any state or local plan, goal, or objective. Therefore, the State Clearinghouse recommends this project be approved for assistance by the cognizant federal agency.

Although the primary function of the State Single Point of Contact is to coordinate the state and local evaluation of your proposal, the Kentucky State Clearinghouse also utilizes this process to apprise the applicant of statutory and regulatory requirements or other types of information which could prove to be useful in the event the project is approved for assistance. Information of this nature, if any, concerning this particular proposal will be attached to this correspondence.

You should now continue with the application process prescribed by the appropriate funding agency. This process may include a detailed review by state agencies that have authority over specific types of projects.

This letter signifies only that the project has been processed through the State Single Point of Contact. It is neither a commitment of funds from this agency or any other state or federal agency.

September 4, 1996
Page two

The results of this review are valid for one year from the date of this letter. Continuation or renewal applications must be submitted to the State Clearinghouse annually. An application not submitted to the funding agency, or not approved within one year after completion of this review, must be re-submitted to receive a valid intergovernmental review.

If you have any questions regarding this letter, please feel free to contact my office at 502-573-2382.

Sincerely,



Ronald W. Cook, Manager
Kentucky State Clearinghouse

Attachments

cc: Northern Kentucky ADD
Ramona Newman

The Kentucky Heritage Council and State Historic Preservation Officer has made the following comments pertaining to State Application Identifier Number KY960715-0792

The project will have no effect on any property listed in or eligible for listing in the National Register of Historic Places. Further, an archaeological survey will not be necessary. Therefore, we have no objection to the project.

The Transportation Cabinet, Division of Design has made the following advisory comments pertaining to State Application Identifier Number KY960715-0792

The Kentucky Department of Highways is responsible for controlling both public and private usage of right-of-way of the State road system. Any firm, individual, or governmental agency desiring access to a State road or desiring to perform any type of work on State right-of-way must obtain a permit from the Department. A contractor performing the work must have in his possession at all times a copy of the permit, authorization letter, and detailed drawings of work to be done.

The Department encourages the use of private property for placement of utility facilities where possible and practical; but we realize that in some instances highway rights-of-way are the only reasonable places to locate the proposed utilities. In these cases, we expect the conscientious efforts of both the applicant and the contractor to minimize adverse effects on the roadway and on the traveling public due to construction of the applicant's project.

This proposal may affect State maintained road(s). Any proposed access or encroachment should be coordinated at the earliest possible stage with:

J. E. Kearnes, Chief District Engineer
Kentucky Department of Highways
PO Box 17130
Buttermilk & I-75
Covington, Kentucky 41017
Telephone: 606-341-2700

The Kentucky Natural Resources and Environmental Protection Cabinet, Division of Water has made the following comments pertaining to State Application Identifier Number KY960715-0792

PRIOR APPROVAL

The proposed project is subject to Division of Water jurisdiction because the following are involved:

- Water distribution lines and appurtenances.
- Floodplain construction including stream obstructions and crossings.

Prior approval must be obtained from the Division of Water before construction can begin on the above matters. The applicant must cite this State Application Identifier (SAI) when submitting plans and specifications to the Division.

FLOODPLAIN CONSTRUCTION

From the application data, the Division of Water ascertains that the sites of the proposed project are located in floodplain areas. Therefore, application must be made to the Division for a floodplain construction permit. Permission, or exemption, depends upon design and exact site.

The Kentucky Natural Resources & Environmental Protection Cabinet, Division of Waste Management, has made the following advisory comments pertaining to State Application Identifier # 960715 - 0792

Kenton County must be implementing their solid waste management plan in compliance with the approved implementation schedule.

The Human Resource Cabinet has made the following comments pertaining to State Application Identifier Number KY960715-0792

Applicant needs to coordinate project with the Kenton County Health Department environmental programs. Historically, extension of public water into areas served by wells, springs, and cisterns has resulted in widespread failure of existing private sewage systems and creation of public health hazards.

Consideration needs to be given to attend to sewage disposal problems as a part of the waterline service project. Unlimited water availability and use causes existing inadequate sewage disposal systems to hydraulically overload and create health hazards for surfacing sewage.

JAMES E. BICKFORD
SECRETARY



N.K.W.S.D.
EXHIBIT-C1
PAGE 49 of 51
PAUL E. PATTON
GOVERNOR

COMMONWEALTH OF KENTUCKY
NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
FRANKFORT OFFICE PARK
14 REILLY RD
FRANKFORT KY 40601

August 19, 1997

Richard Harrison, P.E., Director
Engineering and Distribution
Northern Kentucky Water Service District
3049 Dixie Highway
Ft. Mitchell, Kentucky 41017

RE: PWSID #0590220
CDBG Meeting with
Drinking Water Branch

Dear Mr. Harrison:

The Department of Local Government's Community Development Block Grant requirement for applicants to meet with the Division of Water prior to submittal of applications was met June 1996 for the Northern Kentucky Water Service Area's proposed project to extend water lines in Kenton County.

The project is a resubmission grant application which has not been revised and proposes to serve 436 new customers and extend approximately 17.8 miles of water lines on Staffordsburg, Spillman, Rector, Hempfling, US 25/Green, and Madison Pike Roads.

The Division of Water, Drinking Water Branch has no objections to the proposed project. As mentioned during the meeting, hydraulic analysis will be required when plans and specifications are submitted to our office for approval. If you have any questions please contact Donna Marlin at 502/564-2225 extension 541.

Sincerely,

Vicki L. Ray
Vicki L. Ray, Manager
Drinking Water Branch
Division of Water

VLR:DSM

C: Will Linder and Associates
Public Service Commission
Ramona Newman, DLG
Drinking Water Files



JAMES E. BICKFORD
SECRETARY



N.K.W.S.D.
EXHIBIT-C1
PAGE 50 of 51
PAUL E. PATTON
GOVERNOR

COMMONWEALTH OF KENTUCKY
NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
FRANKFORT OFFICE PARK
14 REILLY RD
FRANKFORT KY 40601 .

June 28, 1996

Richard Harrison, P.E., Director
Engineering and Distribution
Kenton County Water District #1
P.O. Box 17010
Covington, Kentucky 41017

RE: PWSID #0590220
CDBG Meeting with
Drinking Water Branch

Dear Mr. Harrison:

The Department of Local Government's Community Development Block Grant requirement for applicants to meet with the Division of Water prior to submittal of applications has been met for Kenton County Water District #1's (KCWD#1) proposed project to extend water lines in Kenton County. A list of those in attendance is enclosed.

The project proposes to serve 454 new customers and extend approximately 20.9 miles of eight inch water lines. KCWD#1 may decide to increase the line size for 1.7 miles to sixteen inch and for fifteen miles to twelve inch at their own expense. Increased line sizes may result if it is determine that potential development in the area would require more capacity than an eight inch line could provide. There is existing water treatment plant and storage capacity available to serve the project.

The Division of Water, Drinking Water Branch has no objection to the proposed project. As mentioned during the meeting, hydraulic analysis will be required when plans and specifications are submitted to our office for approval.



CDBG/Kenton County Water District #1
June 28, 1996
Page 2 of 2

If you have any questions please contact Donald Moccia at
502/564-2225 extension 635.

Sincerely,



Vicki L. Ray, Manager
Drinking Water Branch
Division of Water

VLR:DTM

Enclosure

C: v Will Linder, Will Linder & Associates
Public Service Commission
Ramona Newman, DLG
Drinking Water Files

N.K.W.S.D.
EXHIBIT-C2
PAGE 1 OF 4

FINAL ENGINEERING REPORT



VIOX & VIOX, INC.
Consulting Engineers & Surveyors

**FINAL ENGINEERING REPORT
NORTHERN KENTUCKY WATER SERVICE DISTRICT
SUB-DISTRICT C WATER MAIN EXTENSION**

The bids received on March 12, 1999 included three projects that represent Sub-District C water main extensions on Green Road, US 25, Ky #17, Hempfling Road, Spillman Road, Staffordsburg Road, Martin Road and Rector Road. Estimates were prepared on 8/4/97 and updated on 3/1/99 for these projects. The following is a comparison of the construction cost portions estimated as compared to the bids received.

• Planning

<u>PROJECT</u>	<u>CONST. COST EST. 8/4/97</u>	<u>CONST. COST EST. 3/1/99</u>	<u>CONST. COST BID</u>
Phase I (Green Road & US 25)	\$1,732,230.00	\$1,770,600.00	\$1,486,579.00
Phase II (Ky #17, Hempfling Road & Spillman Road)	\$1,815,115.00	\$1,864,684.00	\$1,371,328.00
Phase III (Staffordsburg Road, Martin Road & Rector Road)	\$ 645,550.00	\$ 668,590.00	\$ 567,029.10
TOTAL PROJECT Construction Cost w/o Engineering, GeoTech, or Misc.	\$4,192,895.00	\$4,303,874.00	\$3,424,936.10

• Design

The total of the three bids (\$ 3,424,936.10) is less than the totals of the previous estimates prepared by our office.

• Surveying

Prepared By:
James H. Viox, III, P.E.

PRELIMINARY

PRELIMINARY NORTHERN KENTUCKY WATER SERVICE DISTRICT
MONTHLY WATER RATES FOR PROPOSED SUBDISTRICT C
(Subdistrict C Project)

ESTIMATED MONTHLY SURCHARGE OF \$30.00 IS INCLUDED
IN \$35.47 MONTHLY MINIMUM BILL

Monthly rates in cubic feet as follows:

First	200 cubic feet	35.47 monthly minimum bill
Next	1,300 cubic feet	1.73 per 100 cubic feet
Next	163,500 cubic feet	1.49 per 100 cubic feet
Over	163,500 cubic feet	.90 per 100 cubic feet

Monthly rates in gallons as follows:

First	1,496 gallons	35.47 monthly minimum bill
Next	9,724 gallons	2.31 per 1000 gallons = 22.46
Next	1,222,980 gallons	1.98 per 1000 gallons = 2421.50
Over	1,222,980 gallons	1.20 per 1000 gallons = 1467.58

Sample monthly bill amount as follows:

Estimated monthly usage of 4,000 gallons
Estimated monthly bill = \$39.24

Note: Actual bill will vary according to actual usage
measured

DATE: 3/18/99

SUBDISTRICT - C (Proposed)
Revised to include free service lines
for low to moderate income residents

STREET	DISTANCE MILES	TOTAL AVAIL. CUST	UST SIGN	CUST. PER/MI	EST. CONST.
Ph. 1 Green Road & U.S. 25	8.6	151	113	13.14	\$922,371
Cost to Upgrade to 12 in.	8.6	N/A	N/A	N/A	\$564,208
Ph. 2 Ky 17(Gleason to County Line) & Hemphling Rd (First 2.1 miles) & Spillman Rd	8.80	243	161	18.30	\$910,726
Cost to Upgrade to 12 in. & 16 in,	5.70	N/A	N/A	N/A	\$460,602
Ph. 3 Staffordsburg Rd.[Old Decoursey] (Ky 16 to Martin Road) Martin Road (Subdist. B to Staff. Rd) Rector Road (Subdist. B to Kent. St.)	3.50	85	56		\$414,291.1
Cost to Upgrade Staff. To 12 in.	2.40	N/A	N/A	N/A	\$152,738
	20.90	479	330	15.79	\$3,424,936.1
	20.90 miles		69%		

Cost Estimate:

Development	\$3,424,936.1
Land & Rights	\$10,000
Engineering	\$384,800
Legal & Administration	\$42,500
Interest	\$120,000
Contingencies	\$1,215,563.9
	<u>\$5,187,800</u>

Source of Funds:

Community Development Block Grant	\$886,800
Tap-on Fees	\$76,000
Community Fund Raising	\$10,000
County Contribution	\$100,000
Upgrades (NKWSD Bond Issue)	\$1,828,000
Financed thru surcharge (FmHA Loan)	\$2,287,000
	<u>\$5,187,800</u>

NORTHERN KENTUCKY WATER SERVICE DISTRICT

Certification Statement

A certified statement from an authorized utility official confirming:

- (a.) That the proposed plans and specifications for the project have been designed to meet the minimum construction and operating requirements established in 807 KAR 5:066, Section 4(3) and (4), Section 5(1), Sections 6 and 7, Section 8 (1) through (3), Section 9(1), and Section 10.
- (b.) That all other state approvals or permits have been obtained.
- (c.) That the proposed rates, if any, shall produce the total revenue requirements set out in the engineering reports: and
- (d.) The dates upon which construction will begin and end, are planned to be July 1, 1999 and January 1, 2000.

Dhl Willaman

General Manager

4-9-99

Date

**COMMONWEALTH OF KENTUCKY
COUNTY OF CAMPBELL**

Affiant, Ronald J. Barrow, being first duly sworn, deposes and says that he is Assistant General Manager of Northern Kentucky Water Service District, which is the Applicant in the proceeding styled above; that he has read the foregoing Sub-District C Application and knows the contents thereof, and that the same is true of his own knowledge, except as to matters which are therein stated on information or belief, and that as to those matters he believes them to be true.


Ronald J. Barrow
Assistant General Manager
Northern Kentucky Water Service District

Subscribed and sworn to before me in said County to be his act and deed by Ronald J. Barrow, Assistant General Manager of Northern Kentucky Water Service District, this 9th day of April, 1999.


NOTARY PUBLIC
Campbell County, Kentucky
My commission expires: 7-26-01

NOTICE OF FUTURE WATER SERVICE AND RATES

In a Section of Rural Kenton County, funded in part by a Federal Agency loan. Northern Kentucky Water Service District will seek approval of the Public Service Commission of Kentucky to furnish potable water service in Sub-District C. This is a rural area in southern Kenton County which includes the following streets:

Madison Pike
Green Road
Dixie Highway
Staffordsburg Road (Maverick to Martin Rd.)
Martin Road
Rector Road
Hempfling Road (1st 2.1 miles off of Ky 17)
Spillman Road

Construction cost of Sub District C will exceed five million dollars. The federally mandated consumer rates will be:

PRELIMINARY NORTHERN KY. WATER SERVICE DISTRICT MONTHLY WATER RATES FOR PROPOSED SUBDISTRICT C (Subdistrict C Project)

ESTIMATED MONTHLY SURCHARGE OF \$30.00 IS INCLUDED
IN \$35.47 MONTHLY MINIMUM BILL

Monthly rates in cubic feet as follows:

First	200 cubic feet	35.47 monthly minimum bill
Next	1,300 cubic feet	1.73 per 100 cubic feet
Next	163,500 cubic feet	1.49 per 100 cubic feet
Over	163,500 cubic feet	.90 per 100 cubic feet

Monthly rates in gallons as follows:

First	1,496 gallons	35.47 monthly minimum bill
Next	9,724 gallons	2.31 per 1000 gallons = 22.46
Next	1,222,980 gallons	1.98 per 1000 gallons = 2421.50
Over	1,222,980 gallons	1.20 per 1000 gallons = 1467.58

Sample monthly bill amount as follows:

Estimated monthly usage of 4,000 gallons
Estimated monthly bill = \$39.24

Note: Actual bill will vary according to actual usage measured

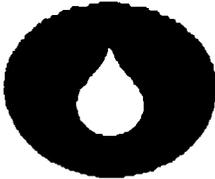
Rates in all other areas will remain unchanged.

For further information contact the PSC of Kentucky at P.O. Box 615, Frankfort, KY 40602, (Tel: 1-800-772-4636). Or contact the undersigned. Service will not be available before January 1, 2000.

Northern Kentucky Water Service District
3049 Dixie Highway P.O. Box 17010
Edgewood, KY 41017
(606) 578-7890

NAME: NKWS
TEL : 4413824
DATE: 03/30/99 10:27

TRANSMIT: 7688350			DURATION	PAGE	SESS	RESULT
TYPE: MEMORY TX	MODE	E-96	01'12	03	670	OK



NORTHERN KENTUCKY WATER SERVICE DISTRICT
100 Aqua Drive - P.O. Box 220
Cold Spring, Kentucky 41076
Phone (606) 441-2310

FAX COVER SHEET

FROM: Ron Barrow
NORTHERN KENTUCKY WATER SERVICE DISTRICT - FAX NO. (606) 441-3824

DATE: 3-30-99

TO: Kentucky Post (Legal Section)
ATTN: Anita

FAX NO: _____

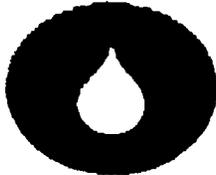
NUMBER OF PAGES INCLUDING COVER SHEET: 3

NOTES: Please run this notice in the Kentucky Post (Legal Section)
beginning Friday April 2, April 9 and April 16, 1999.
We will need an affidavit for each day it is posted in paper.
Thank you.
Ann (Please call when you receive this notice 578-9898 Ext. 3114)

If you receive an incomplete transmission,
please contact us at (606) 441-2310.
If we do not hear from you, we will assume that
you received a complete transmission.

NAME: NKWSD
TEL : 4413824
DATE: 03/26/99 11:28

TRANSMIT: 606 283 7285	DURATION	PAGE	SESS	RESULT		
TYPE: MEMORY TX	MODE	E-144	00'52	03	644	OK



NORTHERN KENTUCKY WATER SERVICE DISTRICT
100 Aqua Drive - P.O. Box 220
Cold Spring, Kentucky 41076
Phone (606) 441-2310

FAX COVER SHEET

FROM: Ronald J. Barrow
NORTHERN KENTUCKY WATER SERVICE DISTRICT - FAX NO. (606) 441-3824

DATE: 3-26-99

TO: Kenton County Recorder
Edna Brooks

FAX NO: 283-7285

NUMBER OF PAGES INCLUDING COVER SHEET: 3

NOTES: Please run this in the Kenton County Recorder for three consecutive
weeks beginning the week of March 29th, 1999. We do need an affidavit
for each week.

If you receive an incomplete transmission,
please contact us at (606) 441-2310.
If we do not hear from you, we will assume that
you received a complete transmission.

NOTICE OF FUTURE WATER SERVICE AND RATES

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Sample monthly bill amount as follows:

Estimated monthly usage of 4,000 gallons
Estimated monthly bill = \$39.24

Note: Actual bill will vary according to actual usage measured

Rates in all other areas will remain unchanged. Considered to be self-sustaining.

For further information contact the PSC of Kentucky at P.O. Box 615, Frankfort, KY 40602, (Tel: 1-800-772-4636). Or contact the undersigned. Service will not be available before January 1, 2000.

Northern Kentucky Water Service District
3049 Dixie Highway P.O. Box 17010
Edgewood, KY 41017
(606) 578-7890

Cost of Facility and Financing

Breakdown of Costs:

Development	\$ 4,218,700
Land and Rights	10,000
Legal and Administrative	42,500
Engineering	384,800
Interest	120,000
Contingencies	<u>411,800</u>
TOTAL	\$ 5,187,800

Financing

RUS Loan	\$ 2,287,000
Private Bond Issue	1,828,000
HUD-CDBG	886,800
Kenton County Fiscal Court	100,000
Applicant Contribution	76,000
Local Fund Raising	<u>10,000</u>
TOTAL	\$ 5,187,800

**EXPLANATION OF PRIVATE BOND ISSUE
FOR \$1,828,000**

The Northern Kentucky Water Service District is committed through the Department of Agriculture "Letter of Conditions" to contribute \$1,828,000 for the upsizing of the water main on Madison Pike/Ky 17, Green Road, U.S. 25 and Staffordsburg Road to ensure adequate capacity.

**EXPLANATION OF KENTON COUNTY FISCAL COURT
CONTRIBUTION OF \$100,000**

The Kenton County Fiscal Court has committed to contributing \$100,000 towards the Subdistrict C Water Project to fund the installation of service lines for low to moderate income households. The commitment of funds is attached.



184-014

KENTON COUNTY FISCAL COURT
OFFICE OF THE COUNTY TREASURER

COUNTY TREASURER (606) 491-4942

FAX NUMBER (606) 491-5236

DATA PROCESSING (606) 491-5355

January 15, 1999

RECEIVED

JAN 18 REC'D

ENGR.

Mr. Paul Castleman
Northern Kentucky Water District
3049 Dixie Hwy
P.O. Box 17101
Edgewood, KY 41017

Re: Sub District C Water Line Expansion Project

Dear Mr. Castleman:

This is to confirm the commitment of the Kenton County Fiscal Court to provide a grant of \$100,000 toward the completion of the Sub District C Water Project.

The \$100,000 is budgeted and dedicated to this project and the funds are available for disbursement upon completion of all the CDBG and Loan commitment paperwork.

Please call me if you need any additional information concerning this project.

Sincerely,

Ivan D Frye
County Treasurer

water

**EXPLANATION OF HUD-CDBG GRANT
for \$886,800**

The Kenton County Fiscal Court has received a Public Facilities Grant for the Subdistrict C water main project for \$886,800. The Grant Agreement is attached.

GRANT INFORMATION AND IDENTIFICATION

Grant Agreement Number: B-97-DC-21-0001(021)

Grantee: Kenton County

Project Name: Kenton County Water Expansion Project

Federal Agency: U.S. Department of Housing and Urban
Development

State Agency: Kentucky Department for Local Government
(Pass-Through Agency)

CFDA Title: Community Development Block Grant/State's
Program
(State-Administered Small Cities Program)

CFDA Number: 14.228

Award Year: 1997

Grant No. B-97-DC-21-0001(021)
CFDA No. 14.228

GRANT AGREEMENT

This Agreement is made and entered into this 27th day of March, 1998, by and between Kenton County, Kentucky, hereinafter referred to as Recipient and the Commonwealth of Kentucky, Department for Local Government, hereinafter referred to as the Commonwealth.

The purpose of this Agreement is to set forth the terms and conditions under which the Commonwealth agrees to dispense the sum of \$886,755 to the Recipient.

Recipient desires to use the funds for the Kenton County Water Expansion Project.

GRANT AGREEMENT

1. GENERAL PROVISIONS

A. Contents of Agreement

This agreement shall consist of the following documents which are incorporated by reference as if fully set out herein: (1) the Grant Agreement and all exhibits to which this agreement refers; (2) the application, including the Statement of Assurances, and all State and Federal Law requirements to which the application and this agreement refer or apply; (3) the State of Kentucky Handbook for KCDBG Grantees currently in effect, plus any advisories; (4) any applicable administrative regulations; and (5) any amendments or modifications to any of the above referenced requirements.

B. General Definitions

Unless specifically provided otherwise or the context otherwise requires, when used in this Grant Agreement:

(1) "Act" means the Housing and Community Development Act of 1974, Pub. L. No. 93-383, as amended.

(2) "Application" means the Commonwealth Small Cities Community Development Block Grant (CDBG) Application, and such other submittals, as are specified in Exhibit A of this Grant Agreement.

(3) "Default" means any default set forth in Section 6-A to this Grant Agreement.

(4) "Eligible Costs" means costs for the activities specified in Exhibit B of this Grant Agreement for which grant funds are budgeted as specified in Exhibit C of this Grant Agreement, provided that such costs (i) are incurred in connection with any activity which is eligible under Section 105A of Title I of the Act, and (ii) conform to the requirements of Attachment B of Office of Management and Budget Circular A-87 (Cost Principles Applicable to Grants and Contracts with State and Local Government), as may be amended from time to time. For purposes of determining the conformity of costs to said Attachment B, all costs set forth in Section C thereof may be considered eligible without prior approval of the Commonwealth.

(5) "Environmental Conditions" means the condition imposed by law, particularly 24 CFR Part 58, and the provisions of the Grant Agreement which prohibit or limit the commitment and use of grant funds until certain procedural requirements have been completed.

(6) "Environmental Requirements" means the requirements described in 24 CFR Part 58.

(7) "Environmental Studies" means all eligible activities necessary to produce an "environmental document", as that term is defined at Section 1508.10 of 40 CFR Part 1508, or to comply with the requirements of 24 CFR Part 58.

(8) "Grant Funds" means those funds to be provided by the Commonwealth to Recipient pursuant to the terms of this Grant Agreement, as specified in Exhibit A of this Grant Agreement.

(9) "HUD" means the United States Department of Housing and Urban Development.

(10) "Program Income" means the CDBG portion of : (i) any income earned by Recipient, or an agent or agency of Recipient, from the disposition of real or personal property acquired in whole or in part with grant funds; (ii) the repayment proceeds (including principal and interest) of any loan made in whole or part with grant funds; (iii) any other revenues defined as program income in 24 CFR Part 570, Subpart J. The "CDBG portion" means an amount computed by applying the percentage of participation of CDBG funds (i) in the acquisition cost of the property to the total income from the disposition of such property, (ii) in the amount of the loan to the total repayment proceeds of such loan, or, (iii) in the cost of an activity to the total income from such activity.

(11) "Participating Party" means any person, firm, corporation or funding source identified as such in Exhibit A and/or B of this Grant Agreement.

(12) "Project" means the activities described in the Application and in Exhibits B and C of this Grant Agreement which are to be carried out to meet the objectives of the CDBG Program.

(13) "Recipient" means the local governmental entity receiving grant funds pursuant to this Grant Agreement, as more particularly identified on the cover page of this Grant Agreement.

(14) "Recipient Activities" means those activities of the Project to be carried out by the Recipient, its agent or agency, which activities are described in Exhibit B of this Grant Agreement and further defined in the Application.

(15) "CDBG" means a grant guided by Title I of the Housing and Community Development Act of 1974, as amended and those regulations set forth in 24 CFR Part 570, Subpart I, as may be amended from time to time and all other applicable Federal and State regulations and laws and assurances signed by Recipient at the time the Recipient's Application was submitted.

(16) "Commonwealth" when not used to designate the territory of the Commonwealth of Kentucky shall mean the Commissioner of the Department for Local Government or any other person to whom the Commissioner has delegated authority to act with respect to matters covered by this Grant Agreement.

2. AMOUNT AND AUTHORIZED USES OF GRANT FUNDS

A. Grant Assistance Provided

In consideration of the various obligations undertaken by the Recipient pursuant to this Grant Agreement, as represented by the Recipient in the Application, the Commonwealth agrees, subject to the terms and conditions set forth herein, to provide the Recipient with grant funds in the amount specified in Exhibit A of this Grant Agreement.

B. Authorized Uses of Grant Funds

The grant funds provided to the Recipient pursuant to this Grant Agreement shall be used only for the specific purposes described in Exhibit B of this Grant Agreement and in the amounts budgeted in Exhibit C of this Grant Agreement, subject to the project amendments provisions of the Commonwealth CDBG program.

C. Adjustments to Grant Funds

The amount of grant funds which the Commonwealth has agreed to provide to the Recipient under this Grant Agreement has been determined by the Commonwealth in reliance upon the cost estimates of the Recipient with respect to the activities set forth in the Application. The Commonwealth reserves the right to reduce the grant amount (i) to conform to any revision to which the Recipient and the Commonwealth may agree with respect to Exhibits B or C of this Grant Agreement, (ii) if the actual costs for activities are lower than those set forth in Exhibits B or C of this Grant Agreement, or (iii) if the investment by Participating Parties is less than the amount specified in Exhibits B, C or D.

D. Recipient's Use of Program Income

(1) All Program Income which is received by the Recipient, prior to completion of all Recipient Activities shall be used prior to, and in place of, any draw of grant funds to the extent adequate to pay costs so incurred.

(2) Unless otherwise specifically stated in Exhibit B of this Grant Agreement, all Program Income received by the Recipient, after completion of all Recipient Activities shall be used by the Recipient, for community or economic development activities eligible for assistance under Title I of the Act as specified in the Commonwealth Eligible Activities Policy Statement.

3. DISBURSEMENT OF GRANT FUNDS

A. Authorization

(1) Promptly after the Commonwealth has received from the Recipient three (3) fully executed copies of this Grant Agreement and has approved evidentiary materials required by Exhibit D of this Grant Agreement that would allow a draw of grant funds pursuant to the terms of Exhibits B and C of this Grant Agreement, the Commonwealth shall authorize the amount of grant funds specified in Exhibit A of this Grant Agreement.

(2) The Recipient is authorized to draw grant funds only in accordance with the provisions of this Grant Agreement and the procedures established by the Commonwealth. No payment by the Commonwealth of an improper or unauthorized draw to the Recipient shall constitute a waiver of the right of the Commonwealth to challenge the validity of said draw, to enforce all rights and remedies set forth in the Grant Agreement, or take corrective or remedial administrative action, which action may include, without limitation, suspension or termination of the Recipient's funding under this Grant Agreement.

(3) The disposition of any grant funds that remain available following completion of the Project, termination of this Grant Agreement by the Commonwealth, or termination of the Project for any cause, shall be in accordance with closeout procedures then in effect or established by the Commonwealth including provisions of OMB Circular A-133, and the Recipient shall not have any rights to such grant funds.

B. Incurring Costs for Project Activities

(1) The use of grant funds is conditioned upon the Recipient incurring costs to be paid in accordance with this Grant Agreement or as otherwise approved by the Commonwealth in writing. Except as permitted by 24 CFR Part 58, no costs to be paid out of project funds may be incurred by the Recipient until all Environmental Conditions of 24 CFR Part 58 have been fully satisfied and the Commonwealth has issued the environmental clearance required by 24 CFR Part 58.

(2) The authorization to incur costs in subsection (1) above is not an authorization to reimburse those costs and does not mean or imply that such costs will be reimbursed out of grant funds. The Recipient may voluntarily, at his own risk, and upon his own credit and expense, incur costs as authorized in subsection (1) above, but his authority to reimburse or to be reimbursed out of grant funds shall be governed by the provisions of this Grant Agreement applicable to the payment of costs and the release of funds by the Commonwealth.

(3) Prior to the issuance by the Commonwealth of the environmental releases required by 24 CFR Part 58, the Recipient may not use any funds, including local funds, to take any action with respect to the Project where such action might have an adverse environmental effect, would limit choices among competing alternatives, or might alter the environmental premises on which the pending clearance is based in such a fashion that the validity of the conclusions to be reached would be affected.

C. Authorization by the Commonwealth for the Recipient to Draw Grant Funds

Recipient's draw of grant funds can occur only after the following has occurred:

(1) The Commonwealth has issued the environmental clearance required by 24 CFR Part 58,

(2) The Commonwealth has approved, the required evidentiary materials specified in Exhibit D of the Grant Agreement,

(3) The Commonwealth has authorized, per the executed Notice of Approval of Evidentiary Materials and Release of Funds, the Recipient's ability to draw grant funds.

(4) Recipient shall have submitted all certifications and materials required as conditions precedent to Recipient's authority to pay costs out of grant funds.

(5) If authorized by Exhibit D herein and if the Commonwealth finds Recipient has timely and acceptably submitted the evidentiary materials in Exhibit D herein, approved same, and if no default has occurred, as defined in Section 6-A herein, and

(6) Recipient has not been served by Commonwealth with notice of Recipient's suspension of authority to so draw the grant funds nor is in breach of its obligation to report a default.

4. REPRESENTATIONS, WARRANTIES, AND OBLIGATIONS

A. Recipient's Representations and Warranties

The Recipient has, by and through consultations among all appropriate members of the Recipient's governing body and its officers, examined each of the following and by its execution of this Grant Agreement the Recipient does, upon information and belief, represent and warrant to the Commonwealth that:

(1) The Recipient is duly organized and validly existing under the laws of the Commonwealth, and has all the requisite power and authority to enter into this Grant Agreement and to assume the responsibilities for compliance with all Federal and State laws and regulations.

(2) A resolution, motion, order or ordinance has been duly adopted, passed or enacted as an official act of the Recipient's governing body, authorizing the execution and delivery of this Grant Agreement by the Recipient and authorizing and directing the person executing this Grant Agreement to do so for and on behalf of the Recipient, said acts being done in such manner and form as to comply with all applicable laws to make this Grant Agreement the valid and legally binding act and agreement of the Recipient.

(3) There is no action, proceeding, or investigation now pending, nor any basis therefore, known or believed by the Recipient to exist, which (i) questions the validity of this Grant Agreement, or any action taken or to be taken under it, or (ii) is likely to result in any material adverse changes in the authorities, properties, assets, liabilities, or conditions (financial or otherwise) of the Recipient which would materially and substantially impair the Recipient's ability to perform any of the obligations imposed upon the Recipient by this Grant Agreement.

(4) The representations, statements, and other matters contained in the Application were true and complete in all material respects as of the date of filing. The Recipient is aware of no event which would require any amendment to the Application (other than an amendment which has been filed with and approved by the Commonwealth) which would make such representations, statements, and other matters true and complete in all material respects and not misleading in any material respect. The Recipient is aware of no

event or other fact which should have been, and has not been, reported in the Application as material information.

(5) The Recipient has obtained or has reasonable assurances that it will obtain all Federal, State and local government approvals and reviews required by law to be obtained by the Recipient for the Project.

(6) Insofar as the capacity of the Recipient to carry out any obligation under this Grant Agreement is concerned, (i) the Recipient is not in material violation of its Charter, or any mortgage, indenture, agreement, instrument, judgement, decree, order, statute, rule or regulation and (ii) the execution and performance of this Grant Agreement will not result in any such violation.

(7) Except for approved eligible administrative and personnel costs, none of the recipient's designees, agents, members, officers, employees, consultants or members of its governing body in which the program is situated, and no other public official of the recipients of such locality or localities who exercises or who has exercised any functions or responsibilities with respect to the project during his or her tenure, or who is in a position to participate in a decision-making process or gain inside information with regard to the project, has or shall have any interest, direct or indirect, in any contract or subcontract or the proceeds thereof for work performed in connection with the project or in any activity, or benefit therefrom, which is part of this project at anytime during or after such person's tenure unless all procedures for an exception have been documented and submitted in writing to the Kentucky Department for Local Government and the Kentucky Department for Local Government has approved such exception.

The procedures for requesting, documenting, and submitting a request for an exception from the Conflict of Interest provisions shall include the applicable procedures delineated in 24 CFR 570.489(h)(4); KRS 99.350(8); KRS 61.252(1); and the local community ethics code.

This Conflict of Interest provision shall be in addition to the requirements in the "Common Rule," 24 CFR Part 85, A-110, KRS 45A.340 and KRS 61.250 et. seq.

B. Obligation to Complete Recipient Activities as Scheduled

(1) The Recipient shall use its best efforts to assure the completion of the Recipient Activities described in Exhibit B of the Grant Agreement and further defined in the Application.

(2) The Recipient agrees that the foregoing undertaking and assurance means that Recipient shall, to the maximum extent permitted by law, use and apply all of its governmental and proprietary powers for such completion, including but not limited to those powers governing taxes, other revenues, credit, eminent domain and appropriations, if necessary, for the purpose of providing any shortfall between funds available under the grant and funds necessary to complete all of the Recipient Activities described in Exhibit B of this Grant Agreement.

C. Commonwealth Approval of Amendments

The Commonwealth will consider program amendments initiated by the Recipient or by the Commonwealth. The Commonwealth defines a program amendment as a request for change in an approved program which (i) is a new activity in the program, (ii) significantly alters the scope, location, or objective of the approved activities or beneficiaries, and/or (iii) results in a change or cumulative changes of the approved budget. Any amendments will be made in accordance with the procedures set forth in the State of Kentucky Handbook for KCDBG Grantees established by the Commonwealth.

D. Notification and Action Upon Default

(1) The Recipient shall promptly give written notice to the Commonwealth upon the discovery by the Recipient of any default involving any Participating Party, as defined in Section 6-A of this Grant Agreement.

(2) Promptly, upon the discovery of any default involving any Participating Party, the Recipient shall vigorously pursue, to the fullest extent possible, all remedies available to Recipient to remove or cure such default, or to seek redress or relief from its effects, including reimbursement for any grant funds expended on the Project, and to prevent or mitigate any adverse effects on the Project. Recipient shall keep the Commonwealth fully informed as to the status of such actions.

5. INSPECTION AND REVIEW

A. Duty to Maintain and Rights to Inspect and Copy Books, Records and Documents

(1) The Recipient shall keep and maintain such books, records and other documents as shall be required under rules and regulations now or hereafter applicable to grants made under the CDBG Program, and as may be reasonably necessary to reflect and fully disclose the amount and disposition of the grant funds, the total cost of the activities paid for in whole or in part with grant funds, and the amount and nature of all investments relative to such activities which are supplied or to be supplied by other sources.

(2) All such books, records and other documents shall be available at the office of the Recipient for inspection, copying, audit and examination at all reasonable times by any duly authorized representative of the Commonwealth, HUD, the General Accounting Office and the Inspector General of the United States.

B. Site Visits

Any duly authorized representative of the Commonwealth or HUD shall, at all reasonable times, have access to all portions of the Project until completion of all closeout procedures and final settlement and conclusion of all issues arising from this grant.

C. Reports

The Recipient shall promptly furnish to the Commonwealth all reports required to be filed in accordance with any directives of the Commonwealth or any statute, rule or regulation of HUD.

6. DEFAULTS AND REMEDIES

A. Defaults

A default shall consist of any use of grant funds for any purpose other than as authorized in Exhibits B and C of this Grant Agreement; or any breach of any covenant, agreement, provision, or warranty (i) the Recipient made in the Grant Agreement; (ii) the Recipient made in any agreement entered into between the Recipient and any Participating Party relating to the Project; (iii) any Participating Party made in any agreement specified in Exhibit D of this Grant Agreement, or; (iv) of the time frame specified in Exhibit B of the Grant Agreement.

B. Remedies Upon Default

(1) Upon occurrence of any default as described in Section 6-A, the Commonwealth may suspend the Recipient's authority to draw grant funds at any time by notice to the Recipient. If a default is not cured within thirty (30) consecutive days from notice of such default by the Commonwealth to the Recipient, the Commonwealth may continue such suspension or by delivery of notice terminate this Grant Agreement. In the event of a termination, the Recipient's authority to draw funds shall have terminated at the date of the notice of termination and the Recipient shall have no right, title or interest in or to any grant funds remaining.

(2) In addition to any other rights or remedies, if a default consists of the Recipient's failure to submit the evidentiary materials described in Exhibit D of this Grant Agreement or in other official written notification, the Commonwealth shall have the right to terminate this Grant Agreement and the award of grant funds to which this Grant Agreement relates by delivery of written notice to the Recipient. Upon such termination, all obligations of the Commonwealth pursuant to this Grant Agreement and such award shall cease and the Recipient shall neither have nor retain any rights whatsoever with respect to the grant funds provided under this Grant Agreement.

(3) The rights and remedies of the Commonwealth shall be deemed to be cumulative and shall be in addition to all those rights afforded the Commonwealth by law or equity. Any election of any right or remedy shall not be deemed to be an election of that right or remedy to the exclusion of any other right or remedy.

(4) The rights and remedies available to the Commonwealth in the event of a suspension or termination of the Grant Agreement shall survive such suspension or termination.

7. EVIDENTIARY MATERIALS

A. Commitments of Participating Parties

(1) In selecting the Recipient for the award of this grant, the Commonwealth has relied, in material part, upon the representations of the Recipient and Participating Parties that the Recipient and the Participating Parties (i) will carry out certain activities connected with the Project; (ii) will complete those activities; (iii) have, or will have, the financial capability to assure the carrying out of the activities to the completion; and (iv) will invest, or cause to be invested, a specific value amount in the Project.

(2) Evidentiary materials submitted by the Recipient as Exhibit D which have been submitted to and approved by the Commonwealth shall not be amended in any material respect without prior written approval of the Commonwealth.

B. Form of Documentary Evidence

All documentary evidence of commitments submitted to the Commonwealth for approval shall be in the form of either (i) a duplicate original, or (ii) a photographic copy of the fully executed original, of the documents.

8. MISCELLANEOUS

A. Notice

(1) All amendments, notices, requests, objections, waivers, rejections, agreements, approvals, disclosures and consents of any kind made pursuant to this Grant Agreement shall be in writing.

(2) Any such communication shall be deemed effective for all purposes as of the date such communication is mailed, postage prepaid, by registered or certified mail, return receipt requested, to be delivered only to the office of the addressee, addressed as follows:

(a) Communications to the Commonwealth shall also be mailed to: Division of Community Development, Department for Local Government, 1024 Capital Center Drive, Suite 340, Frankfort, Kentucky 40601.

(b) Communications to the Recipient shall be addressed to the Recipient, at the address set forth in Exhibit A of this Grant Agreement, or such other address or representative as may be furnished by the Recipient to the Commonwealth.

B. Assignment

No right, benefit, or advantage inuring to the Recipient under this Grant Agreement and no burden imposed on the Recipient hereunder may be assigned without the prior written approval of the Commonwealth. An authorization by the Commonwealth for the transfer of grant funds by Recipient to a Participating Party shall not be deemed an authorization for an assignment, and such Participating Party shall not succeed to any rights, benefits or advantages of the Recipient hereunder.

C. Successors Bounds

This Grant Agreement shall bind, and the rights, benefits and advantages shall inure to, the Recipient's successors.

D. Remedies Not Impaired

No delay or omission of the Commonwealth in exercising any right or remedy available under this Grant Agreement shall impair any such right or remedy or constitute a waiver of any default, or an acquiescence therein.

E. Cumulative Remedies

All rights and remedies of the Commonwealth under this Grant Agreement shall be cumulative.

F. Severability

If any article, subsection, clause or provision of this Grant Agreement is held by any court to be unenforceable or prohibited by any law applicable to this Grant Agreement, the rights and obligations of the parties shall be construed and enforced with that part, term or provision limited so as to make it enforceable to the greatest extent allowed by law, or, if it is totally unenforceable, as if this Grant Agreement did not contain that particular part, term or provision.

G. Entire Agreement

This Grant Agreement constitutes the entire agreement between the Commonwealth and the Recipient and supersedes all prior oral and written agreements between the parties hereto with respect to the subject grant. Notwithstanding the provisions of Section 1-A of this Grant Agreement and anything contained in the Application, the provisions of this Grant Agreement shall prevail.

H. Table of Contents; Titles and Headings

Any table of contents and the headings of the sections and subsections set forth herein are not a part of this Grant Agreement and shall not be deemed to affect the meaning or construction of any of its provisions.

I. Amendment of this Grant Agreement

This Grant Agreement, or any part hereof, may be amended as previously described in Section 4-C from time to time hereafter only in writing executed by the Commonwealth and the Recipient.

J. Governing Law

This Grant Agreement as it may affect the rights, remedies, duties, and obligations of the Commonwealth shall be governed by and construed in accordance with Federal and State law. Insofar as Federal law does not apply, the provisions of this Grant

Agreement shall be governed by and construed in accordance with the laws of the Commonwealth.

K. Waiver by the Commonwealth

The Commonwealth reserves and shall have the exclusive right to waive, at the sole discretion of the Commonwealth, and to the extent permitted by law, any requirement or provision under this Grant Agreement. No act by or on behalf of the Commonwealth shall be, or be deemed or construed to be, any waiver of any such requirement or provision, unless the same be in writing, signed by the Commonwealth, and expressly stated to constitute such waiver.

L. Effective Date

(1) The Grant Agreement, as prepared by the Commonwealth and submitted to the Recipient, shall constitute an offer by the Commonwealth to the Recipient to make the within grant and to enter in this Grant Agreement. The Recipient shall promptly accept and execute, if at all, the Grant Agreement which shall not be altered without the Commonwealth's approval. Upon execution of the Grant Agreement, the Recipient will return the Grant Agreement to the Commonwealth for final approval evidenced by the signature of the Commissioner of the Department for Local Government and the Secretary of Finance and Administration Cabinet. The Commonwealth may rescind the offer at any time prior to its acceptance by the Secretary of Finance and Administration Cabinet, by written notice to Recipient, given as specified in Section 8-A of the Grant Agreement.

(2) This Grant Agreement shall be deemed to have been accepted, and shall become effective, as of the date this Grant Agreement is executed and dated by the Secretary of Finance and Administration Cabinet of the Commonwealth of Kentucky.

M. Termination of Grant Agreement

This Grant Agreement shall terminate upon the completion of all closeout procedures respecting this grant including provisions of the Single Audit Act, OMB Circular A-133 and the final settlement and conclusion between Recipient and the Commonwealth of all issues arising out of this grant. This Grant Agreement may also be terminated by either the Commonwealth or the Recipient on thirty (30) days written notice, sent certified mail, return receipt requested. This notice, if tendered by the Commonwealth, may also include the notice to cure provided for in Section 6 B.(1). Upon termination of the agreement pursuant to this provision, the Recipient shall have no right to grant funds remaining to be disbursed. This provision shall in no way impair and shall be in addition to any additional remedies the Commonwealth may have upon a finding of default or other non-compliance according to the terms of this grant agreement.

N. Anti-Speculation Provisions-Sale of Real Property

(1) When, in Exhibit D of this Grant Agreement, a document is required to contain a provision for the prevention or discouragement of speculation in the purchase and sale of property by a beneficiary of grant funds, then, unless otherwise specified, such provision shall comply with this Section.

(2) The document shall prohibit the beneficiary of grant funds from selling or otherwise disposing of the property within a period specified in Exhibit D of this Grant Agreement after the date of the purchase, for an amount in excess of the purchase price paid, plus the actual costs of any improvements to the property by the beneficiary. The prohibition against sale shall have the same force and effect as a lis pendens, and shall specify that in the event of any attempted sale in violation of the provision, the Recipient shall be entitled to the ex-parte issuance of an injunction restraining such sale. The document shall be executed and authenticated in such manner and form as may be required under State law to authorize its recordation at the place of recordation of deeds, as if a lis pendens and the document shall be so recorded.

(3) The document may, in conjunction with the foregoing or in lieu thereof, describe a procedure whereunder, in the event of any sale of the property within the period specified in Exhibit D of the Grant Agreement, the amount of grant funds which benefited the beneficiary shall be repaid by the beneficiary to the Recipient. Such procedure may include a pro-rata reduction of the amount to be repaid, based upon the time elapsing between the date of the initial purchase of the property and its disposition by the beneficiary. The document must either specify the amount of the grant funds which benefited the beneficiary, or set forth a formula or agreed method for determining such amount. The document shall be executed and authenticated in such manner and form as may be required to authorize its recordation, as if a lis pendens and the document shall be so recorded.

Recipient: Kenton County

Grant No. B-97-DC-21-0001(021)
CFDA# 14.228

GRANT AGREEMENT

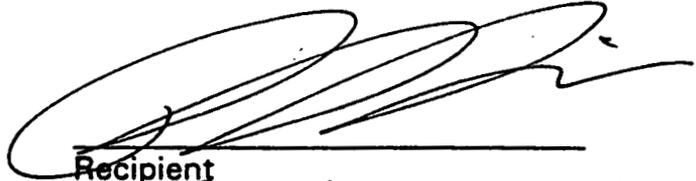
EXECUTED BY THE PARTIES THIS ___ DAY OF _____, 1998.

DEPARTMENT FOR
LOCAL GOVERNMENT

GRANT RECIPIENT

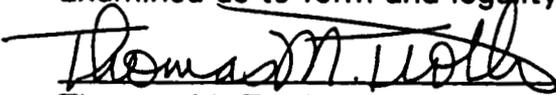


Bob Arnold
Commissioner

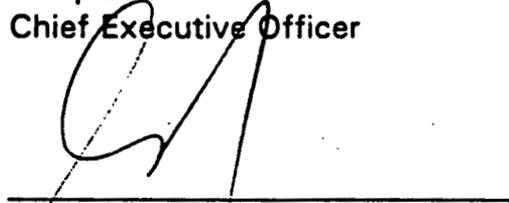


Recipient
Chief Executive Officer

Examined as to form and legality:



Thomas M. Troth
Attorney

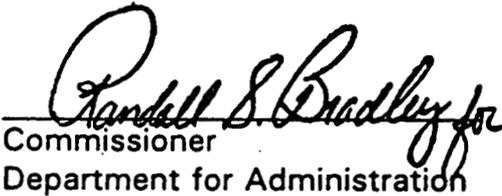


Recipient Attorney

RECOMMEND APPROVAL:

FINANCE AND ADMINISTRATION
CABINET

Approved:

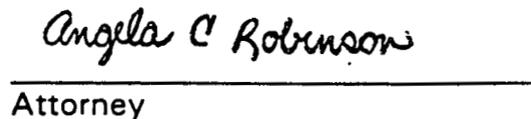


Commissioner
Department for Administration



Secretary of Finance

Examined as to form and legality:



Attorney

Recipient: Kenton County

Grant No. B-97-DC-21-0001(021)

EXHIBIT A

SUPPLEMENTARY PROVISIONS

Rider to Section 1-B (2). In addition to Recipient's Application for Commonwealth Small Cities Community Development Block Grant Assistance, the "Application" shall include the following submittals:

- Cost Summary (Exhibit C)

Rider to Section 1-B (11). The term "Participating Party" consists of the following persons, firms, corporations and funding sources:

N/A

Rider to Section 2-A. The amount of this CDBG grant is:

\$886,755

Rider to Section 8-A. The address of the Recipient for the purposes of communications relating to this Grant Agreement shall be the following:

The Honorable Clyde Middleton
Kenton County Judge/Executive
Post Office Box 792
Covington, Kentucky 41011

Contact:

Will Linder
Will Linder & Associates Consultants, Inc.
218 Swiss Hills
Berea, Kentucky 40403

Recipient: Kenton County

Grant No. B-97-DC-21-0001(021)

EXHIBIT B

DESCRIPTION OF RECIPIENT ACTIVITIES

Rider to Section 1-B (14). The "Recipient Activities" for the Project shall consist of the following (as stated in the Application and summarized below):

1. The Recipient agrees to perform activities as stated in the CDBG application given preliminary approval on January 16, 1998, and summarized below:
 - A. Acquire all necessary easements and property in accordance with the Uniform Act.
 - B. Construct 20.3 miles of 16, 12 and 8 inch water lines, approximately 75 fire hydrants and all necessary appurtenances in 6 areas of Kenton County.
 - C. Provide all necessary engineering design, surveying, geotechnical, and engineering inspection services.
 - D. Waive tap on fees and provide service lines to all LMI households (per survey, 258 HH @ 64 feet, utilizing a 100 foot maximum).
2. The Recipient agrees to provide all necessary administration for the project to assure compliance with all applicable state, federal and local statutes, as set forth in the KCDBG Statement of Assurances dated August 27, 1997.
3. The Recipient shall expend no more than \$49,500 of Block Grant funds to cover cost of planning and administration of the project.
4. The project shall provide service to approximately 436 households and 1,250 persons. Fifty-one percent (51%) of all persons benefiting must be LMI.
5. The Recipient agrees to have project advertised for bids by November 1, 1998 and project completed by February 28, 2000.

Recipient: Kenton County

Grant No. B-97-DC-21-0001(021)

EXHIBIT C

PROJECT BUDGET - SUMMARY OF PROPOSED EXPENDITURES

Attached (as marked Exhibit C containing one page)

COST SUMMARY

Public Facilities Projects

DLG USE ONLY:
Exhibit C
B-97-DC-21-0001(021)

Applicant: Kenton County

UND NO.	DLG NO.	ACTIVITY CATEGORY	CDBG FUNDS	OTHER FUNDS	TOTAL	SOURCE
01	1)	ACQUISITION				
04	2)	CLEARANCE				
15	3)	REHABILITATION				
	a)	code enforcement				
14A	b)	grants		100,000	100,000	Kenton Co.
14A	c)	forgivable-deferred loans				
14A	d)	leveraged loans				
14C	e)	public housing modernization				
14I	f)	lead based/lead hazard/abate				
16A	g)	residential-historic preservation				
16B	h)	non-residential-historic preserv.				
		TOTAL REHABILITATION		100,000	100,000	
	4)	PUBLIC FACILITIES				
03F	a)	parks & recreation facilities				
03K	b)	street improvements				
	c)	water lines	811,755	3,381,140	4,192,895	RD, Tap Fees
03J	d)	water treatment facilities				NKWSD, Com. fnds
	e)	sewer lines				
	f)	sewage treatment facilities				
	g)	flood & drainage facilities				
	h)	engineering design		237,011	237,011	RD, NKWSD
	i)	engineering inspection		127,734	127,734	RD, NKWSD
	j)	other public facilities				
	1.					
	2.					
	3.					
	4.					
	5.					
		TOTAL PUBLIC FACILITIES	811,755	3,745,885	4,557,640	
05	5)	PUBLIC SERVICES				
	6)	OTHER				
	a)	Legal Services, Bond Counsel		20,000	20,000	RD
	b)	Iterim Financing		120,000	120,000	RD
	c)					
	d)					
	e)					
		TOTAL OTHER		140,000	140,000	
	7)	SUBTOTAL	811,755	3,985,885	4,797,640	
20	8)	PLANNING	9,500		9,500	
21A	9)	ADMINISTRATION	40,000		40,000	
22	10)	CONTINGENCIES	25,500	376,790	402,290	
	11)	TOTAL PROJECT COSTS	886,755	4,362,675	5,249,430	

Recipient: Kenton County

Grant No. B-97-DC-21-0001(021)

EXHIBIT D

REQUIRED EVIDENTIARY MATERIALS

Recipient agrees to submit the following evidentiary materials for the approval of the Commonwealth in the manner and form described by the applicable provisions of Section 7 of this Grant Agreement:

- Financial Certification.
- Environmental Certification per 24 CFR, Part 58.
- Copy of clearance from State Historic Preservation Officer.
- Evidence of commitment for all other funds:

Rural Development -Loan	\$2,287,363	2,287,000 ✓
Tap fees	\$ 144,300	
Kenton County Fiscal Court	\$ 100,000 ✓	100,000
Community Fund Raising	\$ 10,000	
KCWSD #1 Bond Issue	<u>\$1,821,012</u>	
Total Other Funds	\$4,362,675	

- The county must submit written assurance that the local cash contribution has been designated for the project and evidence that funds have been deposited in a restricted account. Local cash contributions may be placed in a separate interest bearing account.
- Written assurance that project Tap Fees of \$144,300 will be collected and deposited in a project restricted account prior to start of construction. Tap fees may be placed in a separate interest bearing account.
- Written assurance that a Residential Antidisplacement and Relocation Assistance Plan has been adopted.
- Evidence of Budget Ordinance/Amendment indicating inclusion of CDBG funds into Kenton County's budget
- Evidence of Clearinghouse review and assurance all conditions will be met.